THE IMPACT OF YEW DIDUSTRIALIZATION AND CHANGE OF TECHNOLOGY ON WORKER HEALTH AND SAFETY IN THAILAND

by

Malinee Wongphanich, M.D. Occupational Health Department Faculty of Public Health, Mahidol University Bangkok, Thailand

Presented in the seminar on anthropotechnology at Ergonomie et Neurophysiologie du Travail Paris, 1 June 1987

Thailand is a constitutional monarchy to the middle of South East Asia. It has been a progressive and West-ward looking country since the lith century. CONTENTS contingent of support services to France to fight with the Allies in World War. I. page has a population of some 50 million citizens on a land area grable to France. Even with a heavy foreign influence tq_{2} Introduction develop the economy, over 70% of all workers are in primary products. National development efforts in Thailand 3 - 4

somewhat close to 50% of the free-market rice exports for the world

Impact of industrialization on health and safety: Economic Community. Other major exports are sugar and maize.

4 - 11 A situational analysis Since the beginning of recorded history, Thailand has supported itself on rica. Accident The society was founded on farming 4 - 7families and finance are considered the "backbone" of the $nat_7^{on} 8$ still. Despite chemical fertifizer, pesticides, tractors and attempts atc.olWelfarezation, farming remains in a format of 9h- 11 distant past. Work is done in the hot sun. Work is done by hand Discussion buffalo. Work is done by the entire family 11 the 16 family will eat from its own fields and sell surplus for minor additions to life. The purchase of a pickup truck is not unheard Conclusion orcycles are more in evidence on country roads. 17 - 19 are no bosses or supervisors, just your family and extended Bibliography's off, breaks, access to potable water, recreation19 21 - 29

Press view

there are some districts with TB or dietary deficiencies, we are conflicent that increasing health and education services will win

en Stat

b with

11 - 40

of industrialization on health and safety:

eteviens (enoldert late

INTRODUCTION

Thailand is a constitutional monarchy in the middle of South East Asia. It has been a progressive and West-ward looking country since the 16th century. It sent a contingent of support services to France to fight with the Allies in World War I. Thailand has a population of some 50 million citizens on a land area comparable to France. Even with a heavy foreign influence to develop the economy, over 70% of all workers are in primary products, that is agriculture, forestry and fisheries. Thailand provides somewhat close to 50% of the free-market rice exports for the world and provides a majority of the tapioca products to the European Economic Community. Other major exports are sugar and maize.

Since the beginning of recorded history, Thailand has supported itself on rice cultivation. The society was founded on farming families and farmers are considered the "backbone" of the nation still. Despite chemical fertilizer, pesticides, tractors and attempts at collectivization, farming remains in a format of the distant past. Work is done in the hot sun. Work is done by hand or with a water buffalo. Work is done by the entire family. The family will eat from its own fields and sell surplus for minor additions to life. The purchase of a pickup truck is not unheard of, but mortorcycles are more in evidence on country roads. There are no bosses or supervisors, just your family and extended relatives. Days off, breaks, access to potable water, recreation and other terms of employment depend on the season and the living conditions of the rural community.

Village life is attractive in many ways, especially to those of us living amid city pollution and urban crush. There are primary health care representatives and practitioners in thousands of small communities. District centers frequently have hospitals and provincial capitals have hospitals and public health services. If there are some districts with TB or dietary deficiencies, we are confident that increasing health and education services will win conditions up to the national standard.

NOIT3UD09THI

Inailand is a constitutional monarchy in the middle of South East Asia. It has been a progressive and West-ward looking country since the 16th century. It sent a contingent of support services to France to fight with the Allies in World War 1. ... Thailand has a population of some 50 million citizens on a land area comparable to France. Even with a heavy foreign influence to develop the economy, over 70% of all workers are in primary products, that is agriculture, forestry and fisheries. Thailand provides somewhat close to 50% of the free-market rice exports for the world and provides a majority of the tabiada products to the European Economic Community. Other major exports are sugar and maize.

Since the beginning of recorded history, Thailand has supported itself on rice cultivation. The society was founded on farming families and farmers are considered the "backbone" of the nation still. Despite chemical fertilizer, pesticides, tractors and attempts at collectivization, farming remains in a format of the distant past. Work is done in the hot sun. Work is done by hand or with a water buffalo. Nork is done by the entire family. The family will eat from its own fields and sell surplus for minor additions to life. The purchase of a pickup truck is not unheard of, but mortorcycles are more in evidence on country roads. There are no bosses or supervisors, just your family and extended relatives. Days off, breaks, access to potable water, recreation and other terms of employment depend on the season and the living conditions of the runal community.

Village life is attractive in many ways, especially to those of us living amid city pollution and urban crush. There are primary provincial capitals have hospfials and public health services there are some districts with TB or dietary deficiencies, we are confident that increasing health and education services will win conditions up to the mational standard.

Rural family life is rewarding. Children are kept under close supervision. Women work interchangeably with man in the fields. The elder members of the family do household chores to keep active and support the clan. Although running water is a rarity, many villages now have electricity. Radios are universal, televisions are commonplace. Education is both compulsory and generally neglected after a certain age. But literacy is quite high ant paper, auto and motorcycle ascembly, construction enterprises all have foreign partners, often

With the convenient transport of train and bus service into provincial centers and the pervasive influence of radio and television, consumerism is highly visible among Thai citizens. Very few teenagers wish to stay on the farm. They gravitate to areas of industry in hopes of income. It should be noted that farm labour is without individual income. These Thai youngsters will go into manufacturing in sweat shops so as to gain wages often below the law's minimum so as to contribute to the family back at the farm and to gain a few of the signs of affuence for themselves, such as jeans for the boys and cosmetics for the girls. Whole villages have a demographic gap that leaves of at grammar school and jumps to middle-age with no representation in between alization the Thai Board of Trade sets up a complex

Apart from those hardy spirits who seek their fortune in urban living, there is a major group of farm hands who do temporary industrial work in an off-season, when agriculture is slack, This would include the numerous milling enterprises, set up in isolated areas of the country to handle maize, tapioca and rice before shipping. These enterprises have but two or three employees. What is of more interest to this discussion is the reverse situation, where an industrial worker will work in a congested area and only at harvest time return home to help his/ her family be total assembly. The costs involved in producing save would take to get one from foreign countries. This increased the that of vehicles to where they were priced above the market demand.

NATIONAL DEVELOPMENT EFFORTS IN THAILAND to be the asked to

solisidize Thai manufacturing or see their vehicles unsold. Nearly all of Thai manufacturing and industry is done in close association with foreign investors and experts. Either the principles are immigrants, many are from Taiwan, or they are in a joint-venture with Thai nationals, who hold a controling interest, at least on paper, Industry is not indigenous to Thailand. Foundry, cement paper, auto and motorcycle assembly, construction enterprises all have foreign partners, often Japanese partners. Because of the technical know-how, the backing of foreign banks and admiration for foreign expertise, Thai nationals have a bias for foreign partners and products. This creates a depression on the all-Thai companies, goods and services, within the domestic business community. It has been a stated goal of the Thai government, that foreign investors are welcomed to participate in the economy especially if they create goods for export, but in nearly all cases, foreignsponsored enterprises in Thailand sell into Thailand and pre-empt their economic and commercial sector. as snake bite, bladder stones and TB, which are not matched

In an effort to gain an advantage for the country in its industrialization the Thai Board of Trade sets up a complex barrier to interested foreign investors. The investor must have a major Thai shareholder, must employ Thais whereever possible, allow Thais to gain greater share of ownership and operations, and facilitate a transfer in technology. If it can do all this, the new company is granted a monopoly and given trade protection. As with the very best of plans, this one has not been a total success ultural workers. This would then leave us with the correlary that incidents of impaired health among industrial

For example, in automobile production, the government at one time pressed for a schedule of ever-increasing use of Thai-manufactured parts in the total assembly. The costs involved in producing say a Thai muffler or steering wheel rose in many multiples of what it would take to get one from foreign countries. This increased the cost of vehicles to where they were priced above the market demand,

Rural family life is rewarding. Children are kept under close supervision. Women work interchangeably with man in the fields. The elder members of the family do household chores to keep active and support the clan. Although running water is a rarity, many villages now have electricity. Radios are universal, televisions are commonplace. Education is both compulsory and generally neglected after a certain age, But literacy is quite high.

With the convenient transport of train and bus service into provincial centers and the pervasive influence of radio and television, consumerism is highly visible among That citizens. Very few teenagers wish to stay on the farm. They gravitate to areas of industry in hopes of income. It should be noted that Farm labour is without individual income. These Thai youngsters will go into manufacturing in sweat shops so as to gain wages often below the law's minimum so as to contribute to the family back at the farm and to gain a few of the signs of affuence for themselves, such as jeans for the boys and cosmetics for the girls. Musie villages have a demographic gap that leaves of at grammat school and jumps to middle-age with no representation in

Apart from those hardy spirits who seek their fortune in urban itving, there is a major group of farm hands who do temporary industrial work in an off-season, when agriculture is slatk. This would include the numerous milling enterprises, set up in isolated areas of the country to handle maize, tapioca and vice before shipping. These enterprises have but two or three employees. What is of more interest to this discussion is the reverse situation, where an industrial worker will work in a congested area and only at harvest time rearrn nome to help his/ ner family.

NATIONAL DEVELOHMENT EFFORTS IN THATLAND

Nearly all of Thai manufacturing and industry is done in close association with foreign investors and experts. Either the principles are insignants, many are from Taiwan, or they are in a joint-venture with Thai nationals, who wold a controling interest, at least on paper. Industry is not indigenous to . Thailand. Foundry, cement paper, auto and motorcycle assembly, construction enterprises all have foreign partners, often Japanese partners. Because of the technical know-how, the backing of foreign banks and admination for foreign expertise, That nationals have a bias for foreign partners and products. This creates a depression on the all-That companies, goods and services, within the domestic business community. It has been a stated goal of the Thai government, that foreign investors are welcomed to participate in the economy especially if they create goods for export, but in nearly all cases, foreignsponsored enterprises in Thailand sell into Thailand and pre-empt their economic and commercial sector.

-3-

In an effort to gain an advantage for the country in its industrialization the Thai Beard of Trade sets up a complex barrier to interested foreign investors. The investor must have a major Thai shareholder, must employ Thais whereever possible, allow That's to gain greater share of evnership and operations, and facilitate a transfer in technology. If it can do all this, the new company is granted a monopoly and given trade protection. As with the very best of plans, this one has not been a total

That muffler or steering wheel rose in many multiples of what it would take to get one from foreign countries. This increased the cost of vehicles to where they were priced above the market demand

and it made the auto makers feel they were being asked to subsidize Thai manufacturing or see their vehicles unsold. The government subsequently allowed the Thai percentage of the vehicles frozen at an earlier level, Another oftenheard complaint is that Thais are never absorbed into the higher technical levels of a company, that the experts share none of their insights so as to foster development of Thai were expertise to fulfill the foreign promise at a transfer of technology.000 workers. The payout for compensation of Libiciating was US \$ 8.56 million. The worker population base IMPACT OF INDUSTRIALIZATION ON HEALTH AND SAFETY : A SITUATIONAL ANALYSISes. A survey of the whole country showed. 122,917 interprises with 1,629,115 employees. A bit more than 80% of

This is an appropriate place to lay the parameters of the discussion of the impact of industrialization on health and safety. Because of the diversity, isolation and expense of obtaining baseline identification of workers in 60 agriculture, no studies are in the literature. Hospital admissions show striking characteristics of rural life, such as snake bite, bladder stones and TB, which are not matched by urban counterparts, Until recent border migrations, malaria was in sharp decline in the country. Even pesticide poisoning is found well-represented in urban areas, not just farming communities, thanks to being a popular form of suicide attempt. Therefore it will be generally assumed that aside from TB and a few other living hazards, farm life is free from industrial health risks. And that the society, with a base of family love and community supports, is beneficial to the general well-being of agricultural workers. This would then leave us with the correlary that incidents of impaired health among industrial workers arises from their working and life circumstances. numan, and poise. Craft/vehicle deaths accounted for 52.3% of Il industrial deaths. The part of the body most often affected in inends/fingers, feet/toos, eyes meck/head/face, legs, tiple, back and shoulders, trunk, and ears.

to what extent do claims represent accident? If the accident . Due to an expanding coverage of Thai workers in industry, the

a. Accidents 272 deaths, and 514 permanent disabiling claims.

government accepts industrial accident claims in 72 provinces covering the whole country of Thailand. In 1984 there were 33,213 injury claims filed, with fatalities at the level of 4.13 per 10,000 workers. The payout for compensation of all claims was US \$ 8.66 million. The worker population base covered by compensation was 873,059 workers in 91,314 enterprises. A survey of the whole country showed 122,917 enterprises with 1,629,115 employees. A bit more than 80% of all enterprises have less than ten employees. Nearly 20% of all enterprises employed more than 10 up to 3,000 workers per each enterprise. Payment is on a sliding scale of payment of 50% of the monthly salary for a temporary disability up to 60% of salary for ten years for complete permanent disability. For a death, payment is limited to 60% for five years. Medical expenses are covered up to US \$ 69.23 and funeral expenses up to US \$ 192,30.

In order of frequency, the industries with the most injuries were : manufacturing, construction, wholesale and retail trade, transportation and communication, and services. The industries with the highest fatalities were : transportation and communication, construction and manufacturing. The greatest number of accidents were directly caused by : being struck by object/machine, flying objects, machine, falling objects, craft/ vehicle, electricity/heat/explosion, tool, fall from elevation, poison/chemical, overload, occupational disease, attack by human, and noise. Craft/vehicle deaths accounted for 52.3% of all industrial deaths. The part of the body most often affected were : hands/fingers, feet/toes, eyes neck/head/face, legs, multiple, back and shoulders, trunk, and ears.

and it made the auto makers feel they were being asked to subsidize Thai manufacturing or see their vehicles unsold. The government subsequently allowed the Thai percentage of the vehicles frozen at an earlier level . Another oftenheard complaint is that Thais are never absorbed into the higher technical levels of a company, that the experts share none of their insights so as to foster development of Thai exmertise to fulfill the foreign promise at a transfer of

-4-

IMPACT OF INDUSTRIALIZATION ON HEALTH AND SAFETY : A SITUATIONAL

This is an appropriate place to lay the parameters of the discussion of the impact of industrialization on health and safety. Because of the diversity, isolation and expense of obtaining baseline identification of workers in agriculture, no studies are in the literature. Hospital admissions show striking characteristics of rural life, such as snake bite, bladder stones and T8, which are not matched by urban counterparts. Until recent border migrations, malaria was in sharp decline in the country. Even pesticide poisoning is found well-represented in urban areas, not just farming communities, thanks to being a popular form of suicide attempt. Therefore it will be generally assumed that aside from T8 and a few other living hazards, farm life is free from industrial health risks. And that the society, with a base of family love and community supports, is beneficial to the general well-being of agricultural workers. This would then leave us with the correlary that incidents of impaired health among industrial

Accidents

Due to an expanding coverage of Thai workers in industry, the government accepts industrial accident claims in 72 provinces covering the whole country of Thailand. In 1984 there were 33,213 tajury claims filed, with fatalities at the level of 4.13 per 10,000 workers. The payout for compensation of all claims was US \$ 8.66 million. The worker population base covered by compensation was 873,059 workers in 91,314 enterprises. A survey of the whole country showed 122,917 enterprises with 1,629,115 employees. A bit more than 80% of all enterprises have less than ten employees. Nearly 20% of all enterprises employed more than 10 up to 3,000 workers per each enterprise. Payment is on a sliding scale of payment of 50% of the monthly salary for a temporary disability up to 60% of salary for ten years for complete permanent disability. For a death, payment is limited to 60% for five years. Medical expenses are covered up to US \$ 69.23 and funeral expenses up to US \$ 192,30.

In order of frequency, the industries with the most injuries were ' nanufacturing, construction, wholesale and retail trade, transportation and comunication, and services. The industries with the highest fatalities were : transportation and communication, construction and manufacturing. The greatest number of accidents were directly caused by : being struck by object/machine, flying objects, machine. falling objects, craft/ vehicle, electricity/heat/explosion, tool, fall from elevation, ooison/chemical, everlord, occupationed lisease, attack by all industrial deaths. The part of the body most often arfected were : hands/fingers, feet/toes, eyes neck/head/face, legs, multiple, back and shoulders, trunk, and ears. In 1984 there were 272 deaths, and 514 permanent disabling claims. To what extent do claims represent accident? If the accident rate is uniform in frequency both above and below the size of 50 employees at one factory, the number of claims that would be field by 100% coverage of employees outside of agriculture of government service would be the 33,213 current claims multiplied by a factor of five. However, it has been determined that accidents are more frequent in industries of 20 to 49 employees, where there are poor safety conditions with increasing levels of machinery usage.

So, all considered, there are a minimum of 200,000 industrial injuries per year out of a workforce of some 6.5 million in transport, communication, utilities, manufacturing and construction, or a 3% injury rate per year. The fatality rate is 4.13 per 10,000 workers.

-6-



In 1984 there were 272 deaths, and 514 permanent disabling claims. To what extent do claims represent accident? If the accident rate is uniform in frequency both above and below the size of 50 employees at one factory, the number of claims that would be field by 100% coverage of employees outside of agriculture of government service would be the 33,213 current claims multiplied by a factor of five. However, it has been determined that accidents are more frequent in industries of 20 to 49 employees, where there are poon safety conditions with increasing levels of machinery

So, all considered, there, are a minimum of 200,000 industrial injuries per year out of a workforce of some 6.5 million in teansport, communication, utilities, manufacturing and construction, or a 3% injury rate per year. The fatality rate is 4.13 per 10,000 workers.

To 1984, there were only 365 claims for compensation because of accupational disease, 79% of which were forms of demnatitis. Some This of the claims were for periods of three days or less. There



Here is a news photograph of four food processing workers drowned in a vat. Of the fourth, only an arm can be seen at the extreme bottom. The factory in which the accident took place was unregulated as it did not contain large machinery. It made mango pickles. The workers had to walk down a ladder into a large open vat to scoop up the mangoes. Uthai, an 18-year old worker, fell into the vat. His three co-workers jumped in to rescue him, and became unconscious as well. Rescue workers cut a hole in the roof and pumped oxygen into the vat to disperse the intense gas produced in the pickling process. It was suspected that there could have been an electrical leakage from two water pumps into the vat so they were turned off.

Of the four workers pulled from the vat, only one was alive to be admitted to the local hospital. He soon died. The Labour Department offered the four families each US \$ 3,150 for compensation and offered to pay the hospital bills for the one worker admitted. The factory owner was arrested for causing death out of negligence. It was determined that he had only contributed some US \$ 38 a year in Worker Compensation premiums.

By circular reasoning, occupational health is denied epidemological

An automatic cut out safety device has been on the market in Thailand for many years. Its use would have safeguarded the lives of the workers who were willing to risk themselves for a friend. As there was neither autopsy nor cause investigation performed, the etiology of death is somewhat speculative, but it was determined that simple asphyxiation could not have cause such immediate effects.

b. Disease idence there is still an excuse to say that the

Where accidents are all too obvious, disease is terribly subtle. In 1984, there were only 305 claims for compensation because of occupational disease, 79% of which were forms of dermatitis. Some 78% of the claims were for periods of three days or less. There

no disease-related losses of organ-or disabilities. There were two deaths, both from malaria. If deaths from accidents were 4 per 10,000 workers, would deaths from industrial disease be only 1 per 500,000? Surely not.

-8-

Disease is largely unrecognized or if recognized not related in medical minds to working conditions. Disease is a slow process with diffused symptoms and gradual development. For the workers it is impossible for them to tell when it begins and has no immediately identifiable cause. There is also a suppression activity within the body, where its resources are called up to fight against adverse conditions. This activity would strain the normal equilibrium of the body and leave it vulnerable to other disease agents. This could well account for the high spontaneous abortion among women in textile work.

So the above figure excludes unidentified disease, workers who have been forced out of a job because of undefined health problems and those who sought other work rather than risk their health. One of the continuing problem areas in industrial health is the By circular reasoning, occupational health is denied epidemological survey because the field is obscure and the field is obscure because no survey has been done. My proposal for a local and later national health review of working, ill and hospitalized industrial employees has been given little consideration. There is no opening at home. Possibly a regional activity would sweep up interest in determining which illness/accident - frequencies occur in working populations. To date as no findings have come forward to show disease incidence there is still an excuse to say that the incidence is just as low as the compensation claims. If there were findings, which would show a much higher incidence rate, it would be more difficult to assign occupational health to its minor status in general public health, went. Also most of the job Tribants have very limited background in training or education

Here is a news photograph of four food processing workers drowned in a vat. Of the fourth, only an arm can be seen at the extreme bottom. The factory in which the accident took place was, unregulated as it did not contain large machinery. It made mango pickles, The workers had to walk down a ladder into a large open wat to scoop up the mangoes. Uthai, an 18-year old worker, fell into the vat. His three co-workers jumped in to rescue him, and became unconscious as well. Rescue workers cut a hole in the roof in the pickling process. It was suspected that there could have they were turned off.

Of the four workers pulled from the vat, only one was alive to be admitted to the local hospital. He shon died. The Labour Department offered the four families each US \$ 3,150 for compensation and offered to pay the hospital bills for the one worker admitted. The factory owner was arrested for causing death out of negligence. It was determined that he had only contributed some US \$ 38 a year in Worker Compensation premiums.

An automatic cut out safety device has been on the market in Thailand for many years. Its use would have safeguarded the lives of the workers who were willing to risk themselves for a friend. As there was neither autopsy nor cause investigation performed, the etiology of death is somewhat speculative, but it was determined that simple asphyxiation could not have cause such immediate effects.

b. Disease

Where accidents are all too obvious, disease is terribly subtle. In 1984, there were only 305 claims for compensation because of occupational disease, 79% of which were forms of dermatitis. Some 78% of the claims were for periods of three days or less. There

The legal requirements, such as minimum wage, provision of a safe work site, holidays, and so on, form the foundation under all Thai industry, but because of staff and budget limitations tend to be enforced closer to Bangkok and among the larger factories : Registration under the Industrial Works Deparment is required for factories of 20 and more employees. They must meet standards of light, heat, noise, vibration, dust, safety features, health personnel and others, but again the number of inspectors is vastly inferior to the number of factories. An inspection tour could literally be a once-in-a-lifetime event for most factory owners. It is an event that could be considered an invitation to collision. With factories of above 50 employees, there are more and more areas for application of international procedures which tend to come in a package including occupational safety and health, until factories of 1,000 employees are generally given very good health supports. SG-worker fectories, there no adequate provisions for workers injured on the job. Reports

One of the continuing problem areas in industrial health is the lack of any concern by factories in the provision of housing, nutrition and recreation facilities for their residential workers. Many factories provide dormitories for their workers. These are often sub-standard, noisy, dirty, fire hazards. Because the workers are in effect a "captive population", their conditions are reduced below any acceptable standard. This gives rise to stress in body and mind that reduces defense against disease and weakens productivity. ces, such as ear mults, face shields, hard-toe wes, respirators, and so on, are not rigorously supplied by

When it is considered that 63% of all Thai enterprises have less than five employees, it is obvious that the manager would not have the resources to appoint a personnel officer to screen applicants for correct job placement. Also most of the job applicants have very limited background in training or education. mentics. Lighting if often poor, so the confusion of

" in the second states and the second states.

maintenance materials and working areas.

no disease-related losses of organ-or disabilities. There were two deaths, both from malaria. If deaths from accidents were 4 per 10,000 workers, would deaths from industrial disease be only 1 per 500,000? Surely not.

Disease is largely unrecognized or if recognized not related in medical minds to working conditions. Disease is a slow process with diffused symptoms and gradual development. For the workers it is impossible for them to tell when it begins and has no formediately identifiable cause. There is also a suppression activity within the body, where its resources are called up to fight against adverse conditions. This activity would strain the normal equilibrium of the body and leave it vulnerable to other disease agents. This could well account for the high spontaneous abortion among women in textile work.

So the above figure excludes unidentified disease, workers who have been forced out of a job because of undefined Health problems add those who sought other work rather than risk their health.

By circular reasoning, occupational health is denied epidemelogical survey because the field is obscure and the field is obscure because no survey has been done. My proposal for a local and later national neelth review of working, ill and hospitalized industrial. employees has been given little consideration. There is no opening at home. Possibly a regional activity would sweep up interest in determining which illness/accident - frequencies accur in working populations. To date as no findings have come forward to show disease incidence there is still an excuse to say that the status in general public health.

c. Welfare too of rough workers and resourceless management

This combination of rough workers and resourceless management allow the many inappropriate job assignments, which leads to so many accidents, such as farm girls getting their arms caught in sausage grinders and school boys losing half a hand on die punch machines.

It is not certain how comprehensive the regulations on a preemployment physical examination are followed. But, in some textile mills, not 60% of the workers had been to a physician. And generally there is not much compliance with the required yearly checkups. Aside from the regulated services, any screening services, for such as weaver deafness, lead body burdens in battery manufacture. When spot checks have been done, these industries have shown serious health problems related to well-known hazards for specific occupations.

Regarding first aid, factory clinic and safety committee, there is reason to believe that in the under 50-worker factories, there are no adequate provisions for workers injured on the job. Reports are frequent that workers are told to continue working if injured and given iodine even for severed fingers. Workers are threatened with dismissal if they claim to be disabled. Factories with 200 workers have to have a full-time nurse, a clinic and access to a physician. But often the nurse has not gotten any degree, the clinic is a medicine cabinet and the physician not trained for occupational health.

Protective devices, such as ear muffs, face shields, hard-toe shoes, respirators, and so on, are not rigorously supplied by managers nor rigorously worn by employees. But the main and most correctable safety hazard is the lack of house keeping standards. Spare parts, broken machinery, finished product, lunch and scrap materials are jumbled between lines of machinery which the workers use for their job and which serve as access to the exits. Lighting if often poor, so the confusion of passageways is increased. There is no separation of stores, maintenance materials and working areas.

c. Hettare

The legal requirements, such as minimum wage, provision of a safe work site, holidays, and so on, form the foundation under all That industry, but because of staff and budget limitations tend to be enforced closer to Bangkok and among the larger, factories : Registration under the Industrial Works Department is required for factories of 20 and more employees. They must meet standards of light, heat, noise, vibration, dust, safety features, health personnel and others, but again the number of inspectors is vastly inferior to the number of factories. An inspection tour could literally be a once-in-a-lifetime event for most factory awhers. It is an event that could be considered an invitation to collision. With factories of above 50 employees, there are more and more areas for application of international procedures which tend to come in a package including occupational safety and health, until factories of 1,000 employees are generally given very good health supports.

One of the continuing problem areas in industrial health is the lack of any concern by factories in the provision of housing, nutrition and recreation facilities for their residential workers. Many factories provide dormiteries for their workers. These are often sub-standard, noisy, dirty, fire hazards. Because the workers are in effect a "captive population", their conditions are reduced below any acceptable standard. This gives rise to stress in body and mind that reduces defense against disease and weakens productivity.

When it is considered that 6% of all like enterprises have less than five employee it is obvious that the manager would not have the resources to appoint a personnel officer to screen applicants for correct job placement. Also most of the job

Many of the smaller factories intentionally find the least capable workers so as to pay below the minimum rate and keep a docile work force. The dormitory system increases the domination of the managers ever workers to the exclusion of a healthful and safe environment.

DISCUSSION h for an accompdation so as to accept the technology

hub leave the social order surrounding it unchanged. For example, Incidentally, technology is not just machinery, it is first of all knowledge. As the ILO says, "Technology may be defined as the conscious application of knowledge and experience of physical and social phenomena to the development and production of goods and services. "Possibly because technology is intangible in its aspects of knowledge, experience and social phenomena, it is not readily available to transfer.

An elternative case is where the technology, once transfered, is

I am reminded of a famous artist in Hong Kong. He studied calligraphy, that is the styles of writing, in all the ages and variations of Chinese history until he was sought after as the foremost authority in the designing of stamps, called chops by the British, which are invaluable to business record authentication. He was asked if he had trained his replacement in this fine art. He had to respond that all the training is self-training. And that just as he had taught himself, he could only be followed by a self-taught artist. So, I tentatively offer that often times the failure for technological transfer is caused by the lack of self-development which was a prerequisite for communication of the technology.here was a health hazard to

the nearby residents. Around the plant site there is one of

This combination of rough workers and resourceless management allow the many inappropriate job assignments, which leads to so many accidents, such as farm girls getting their arms caught in sausage grinders and school boys losing half a hand on die punch machines.

It is not certain how comprehensive the regulations on a preemployment physical examination are followed. But, in some textile mills, not 60% of the workers had been to a physician. And generally there is not much compliance with the required yearly checkups. Aside from the regulated services, any screening services, for such as weaver deafness, lead body burdens in battery manufacture. When spot checks have been done, these industries have shown serious health problems related to well-known hazards for specific occupations.

Regarding first aid, factory clinic and safety committee, there is reason to believe that in the under 50-worker factories, there are no adequate provisions for workers injured on the job. Reports are frequent that workers are told to continue working if injured and given lodine even for severed fingers. Workers are threatened with dismissal if they claim to be disabled. Factories with 200 workers have to have a full-time nurse, a clinic and access to a physician. But often the nurse has not gotten any degree, the clinic is a medicine cabinet and the physician not trained for occupational health.

Protective devices, such as ear muffs, face shields, hard-coe shees, respirators, and so on, are not rigorously supplied by managers nor rigorously worn by employees. But the main and most correctable safety hazard is the lack of house keeping standards. Spare parts, broken machinery, finished product, lunch and scrap materials are jumbled between lines of machinery which the workers use for their job and which serve as access to the exits. Lighting if often poor, so the confusion of passagaways is increased. There is no separation of stores, maintenance materials and working areas.

The ILO found that transfer of technology comprises two elements, technique and structure. Technique is covered by tools and "know-how", Structure is the social atmosphere of the receiving community, including its cognitive structure within which the "know-how" becomes meaningful. I would think this means both the preparing of the ground before the transfer and acceptance of the results after transfer has occured.

Many of the smaller factories intentionally find the least capable workers so as to pay below the minimum rate and keep a docile work force. The dormitory system increases the domination of the managers ever workers to the exclusion of a healthful and safe environment.

DISCUSSION

Incidentally, bechnology is not just machinery, it is first of all knowledge. As the ILO says, "Technology may be defined as the conscious application of knowledge and experience of physical and social phenomena to the development and preduction of goods and, services. "Possibly because technology is intangible in its aspects of knowledge, experience and social phenomena, it is not readily available to transfer.

1 am reminded of a famous artist in Hong Kong. He studied calligraphy. that is the styles of writing, in all the ages and variations of Chinese history until he was sought after as the foremost authority in the designing of stamps, called chops by the British, which are invaluable to business record authentication. He was asked if he had trained his replacement in this fine art. He had to respond that all the training is self-training. And that just as he had trained himself, he could offer that often times the failure for technological transfer is offer that often times the failure for technological transfer is for communication of the technology.

The ILU found that transfer of technology comprises two elements, technique and structure. Technique is covered by tools and "know-how", Structure is the social atmosphere of the receiving commutity, including its cognitive structure within which the "know-how" becomes meaningful. I would think this means both the preparing of the ground before the transfer and acceptance of the results after transfer has occured. If there is to be a transfer between two similar societies or economies such as say between Taiwan and South Korea, or Singapore and Hong Kong, we could expect that the structure of the receiving country could easily accomodate the new technology.

If there is a major difference in the structures, the receiver will search for an accomodation so as to accept the technology but leave the social order surrounding it unchanged. For example, French food processors were keen to develop frog production in Indonesia to satisfy the Gallic taste for frog legs. Indonesians have a general prohibition about the eating of frogs. The Indonesian authorities determined that the general good would be served if the frogs were raised for export only and the French agreed.

An alternative case is where the technology, once transfered, is recognized as antagonistic to the surroundings and accomodation is not possible. Thailand was the scene of such a rejection. Although the national government accepted and encouraged the establishment of a tantalum processing mill, once the mill reached completion, the local population in a state of panic, rioted, totally destroying the plant. Let me give the details.

Of major impact was the recent radioactive accident in Russia, which followed all to closely the chemical accident in Bhopal India. The local residents were led to believe that with any major industrial project and especially with the refining of tantalum and other rare minerals, there was a health hazard to the nearby residents. Around the plant site there is one of Thailand's most beautiful resorts, an island paradise. The potential threat to the pollution of the atmosphere and the loss of tourist revenue to the island was uppermost in the minds of the residents. The German investors and the big-city Thai investors were looked upon as unfeeling and uncaring outsiders in this small island community.

Many mistakes were made in the presentation of the technological transfer. The local community was the last consulated and the national government was unawared of the depth of disaffection. The industrialists thought they were providing employment opportunities along with increased national development. They did not begin to approach the local people until feeling and over run any chance of accomodation. The joint-venture of Thai and German industrialists is currently working out plans to establish the mill in Thailand's largest industrial estate, the Eastern Seaboard. Hopefully the local residents will be more appreciative of the plant and the investors will do more to prepare them for the new technology.

That process whereby the host culture society is changed by the imported technology is called "modernization". But most of the Third World is sensitive to a national identity and would not want to see itself as colonial, either economically or culturally. The method for becoming modern but retaining local values has not been achieved very often.

In 1977 Edward Lawless tabulated some 45 disastrous events related to technology. They all had a commonality: they started with a near-insignificant accident and ultimately showed catastrophic effects. This pattern is familiar to anyone with field experience in occupational safety. Once a pattern is established everyone becomes complacent util an unexpected emergency challenges the system in a way it was not designed to respond. Then through a series of trial and error efforts the accident become more wide spread util a lucky, and possibly very late, action halts the damage. In Thailand there are two factors that give rise to the problem. Primarily, the industrial management class sees workers as replaceable raw materials in the factory process. The economics of small business, with narrow profit margins, requires workers to be easily replaceable and does not allow the investment in

If there is to be a transfer between two similar societies or economies such as say between Taiwan and South Korea, or Singapare and Hong Kong, we could expect that the structure of the receiving country could easily accomodate the new technology.

If there is a major difference in the structures, the receiver will search for an accomodation so as to accept the technology but leave the social order surrounding it unchanged. For example, French food processors were keen to develop frog production in Indonesia to satisfy the Gallic taste for freg legs. Indonesians have a general prohibition about the eating of frogs. The Indonesian authorities determined that the general good would be served if the frogs were raised for export only and the French agreed.

An alternative case is where the technology, once transfered, is recognized as antagonistic to the surroundings and accomodation is not possible. Thailand was the scene of such a rejection. Although the national government accepted and encouraged the establishment of a tantalum processing mill, once the mill reached completion, the local population in a state of panic, rioted, totally destroying the plant. Let me give the details.

Of major impact was the recent radioactive accident in Russia, which followed all to closely the chemical accident in Bhopal India. The local residents were led to melieve that with any major industrial project and especially with the refining of tantalum and other rare minerals, there was a health hazard to the nearby residents. Around the plant site there is one of patential threat to the pollution of the atmosphere and the loss of tourist revenue to the island was uppermost in the minds of the residents. The German investors and the big-city Thai in this small island community.

Many mistakes were made in the presentation of the technological The industrialists thought they were providing employment did not begin to approach the local people until feeling and Eastern Seamoard. Mogefully the local residents will be more

That process whereby the host culture setlety is changed by the imported technology is called "modernization". But most of the Third World is sensitive to a mational identity and would not want to see ifielf as colonial, either economically or culturally. The method for accounting modern but retaining local values has not been achieved very often.

with a near-insignificant accident and ultimately showed catastrophic affects. This pattern is familiar to anyone with accident become more wide spread util a lucky, and possibly

replaceable raw materials in the factory process. The economic

standard goods and services for their well being. The industrial process is supported by a huge class of unemployed, approaching 2 million or over 6% of the labour force. Managers do have justification for withholding facilities because of the lack of governmental support of small factories and the lack of credit from banks. Certain welfare facilities would be quite expensive and not show up with improved productivity. But managers cannot use this excuse when they are unable to give even potable, cool drinking water to their foundry workers for a break.ently this corps of "anticipation" personnel are in too

The second factor is the unconcern of the governmental agency line-staff and even administrative staff. Administration sees occupational health generally in terms of environmental protection and has great difficulty seeing it clearly as an independent problem from the environment. Problems such as work procedure, handling of job assignment cannot be considered from a view point of environment but only in the context of industrial safety and health. The line-staff are not given policy, travel expense or instrumentation with which to adequately evaluate industries. Of course there is still the problem of inadequate numbers of inspectors for the range of national industries, but if it were a certainty that inspectors would close down hazardous factories, there would be a much greater chance of having factory managers up grade their work sites, contingency ?

Have these procedures been promulgated and tested ? In conclusion, I cannot deny what Dr. Julius Morris had stated in his presentation at the International Health Promotion & Disease Prevention Conference in Honolulu, 1985. He pointed out the major contributing factors concerning transfer of technology and the occupational health hazards as follows :assigned for response, action, direction and advice ?

Is there a positive system for the immediate distribution of information to the public and news media ?

few numbers and to limited in background to do their job.

every industry. Of closer a. Management has not been educated to expect the unexpected. Therefore could not understand the need of expending time and funds.

- equipment and machinery' should be screened for "safety. health and safety standards are met. sei

the donor country should include encotion and training WHAT NEEDS TO BE DONE and the sectors for all levels

- - 1. Are the areas of major hazard potential identified and assessed ?
 - contingency ?

 - 4. Are there adequate arrangements for liaison with other
 - 5. Have the proper and qualified people been designated and
- 6. Is there a positive system for the immediate distribution

standard goods and services for their well being. The industrial process is supported by a huge class of unemployed, approaching 2 million or over 6% of the labour force. Managers de have justification for withholding facilities because of the lack of movernmental support of small factories and the be quite expensive and_not show up with improved productivity. But managers cannot use this excuse when they are unable to give even potable, cool drinking water to their foundry workers

The second factor is the unconcern of the governmental agency line-staff and even administrative staff. Administration sees occupational health generally in terms of environmental protection and has great difficulty seeing it clearly as an independent problem from the environment. Problems such as work procedure, handling of job assignment cannot be considered from a view paint of environment but only in the context of industrial safety and health. The line-staff are not given policy, travel expense or instrumentation with which to adequately evaluate industries. Of course there is still the problem of inadequate numbers of inspectors for the range of national industries, but if it were a certainty that inspectors would close down hazardous factories, there would be a much greater chance of having factory managers up; grade their work

Disease Prevention Conference in Honolulu, 1986. He pointed

b. Management had not utilized the organization people who are trained to anticipate the hazards (such as safety engineers). operates at the planning stage and everafter.

c. Frequently this corps of "anticipation" personnel are in too few numbers and to limited in background to do their job.

d. Management tends to rest after the applicable occupational

e. Both the technicians and managers avoid the latest information directly relating to their operations and procedures.

Dr. Julius Morris developed a checklist to be used in the set-up phase:-

wains of the positive 2. Are there procedures for dealing with the worst foreseeable

3. Have these procedures been promulgated and tested ?

parties who may be affected or those who could help us ?

assigned for response, action, direction and advice ?

of information to the public and news media ?

These vital items are needed in every industry. Of closer interest is what the International Labour Organizationtion thought as necessary in transfer of technology and occupational health and safety : logy transfer from the First World Countries, there with tedly many hazards in both rural and orban living.

- skills.
- the donor should provide routine service and preventive maintenance of machinery.
- of staff. ry on the job, the employee is considered
- transition.home, within the family circle, they are given
- there should be development and recording of the positive of the workers. Hade known to the employee and no remedial
- occupational health and safety personnel should be their perspective and share local experiences.

- a. Management has not been educated to expect the unexpected. Therefore could not understand the need of expending time and Runds.
- b. Management had not utilized the organization people who are trained to anticipate the hazards (such as safety
- c. Frequently this corps of "anticipation" personnel are in too few numbers and to limited in background to do their job. d. Management tends to rest after the applicable occupational health and safety standards are met.
- e. Both the technicians and managers avoid the latest information directly relating to their operations and procedures.
- Dr. Julius Morris developed a checklist to be used in the set-up phase:-
- 1. Are the areas of major hazard potential identified and assessed ?
 - Are there procedures for dealing with the worst foreseeable.
 - 3. Have these procedures been promulgated and tested ?
 - 4. Are there adequate arrangements for ligison with other parties who may be affected on those who could help us ?
 - 6. Is there a pusitive system for the immediate distribution

- the host country should have a viable safety and health programme that operates at the planning stage and everafter. a of the job. This indicates - both countries must have compulsory consultation together over impacts while in the planning stage.

- equipment and machinery should be screened for safety, ergonomics, comfort, noise abatement and matching local

- the donor country should provide education and training in vocational, safety and hygiene matters for all levels

- the donor must supply training materials and methods such as audio-visual aids, use of mass media to cement the

effects of mechanisation on the education, safety and health

encouraged to attend and participate in professional conferences and to publish in journals so as to broaden

 net works for the exchange of information should be developed among participants of different industries currently undergoing technological transfer.

18 3 1

CONCLUSION

In Thailand and any other newly industrialized countries with technology transfer from the First World Countries, there are undoubtedly many hazards in both rural and urban living. Accidents in agricultural and industrial settings are related inversely to work experience, that is the most hazardous time is at the beginning of the job. This indicates a lack of appropriate job placement and training as well as supervision. Farming families would be more careful in introducing their children to the different tasks in agriculture and the range of risk factors may be smaller than for industry.

When a young Thai begins work in a factory, he or she is isolated from family and neighbours that have been their sole support since birth. The employer replaces all previous paternal roles, and all too frequently ignores the needs of this vulnerable employee. In the event of illness, accident and even injury on the job, the employee is considered unreliable and is therefore terminated. Employees tend to ignore nutritional standards and avoid medical treatment for ailments. At home, within the family circle, they are given attention and taken to medical practitioners. Any of the health risks of a job, such as heavy metal poisoning in battery manufacture is not made known to the employee and no remedial health activities are provided. Those who develop serious symptoms are terminated. ording and reporting systems gains

Illness and accident incidents are recognizable and attributable to certain working conditions. But there is a wider sphere of influence with possibly deeper hazards that goes unrecognized. Industrial workers live in congested areas. There resources and support services are overwhelmed. Housing facility, food

These vital items are needed in every industry. Of closer interest is what the International Labour Organizationtion thought as necessary in transfer of technology and occupational health and safety :

- the host country should have a viable safety and health programme that operates at the planning stage and everafter.
- both countries must have compulsory consultation together over impacts while in the planning stage.
- equipment and machinery should be screened for safety, ergonomics, comfort, noise abatement and matching local skills.
- the donor should provide routine service and preventive maintenance of machinery.
- the donor country should provide education and training in vocational, safety and hygiene matters for all levels of staff.
- the donor must supply training materials and methods such as audio-visual aids, use of mass media to cement the transition.
- there should be devalopment and recording of the positive effects of mechanisation on the education, safety and health of the workers.
- occupational health and snfety personnel should be encouraged to attend and participate in professional conferences and to publish in journals so as to broaden their perspective and share local experiences.
- net works for the exclenge of information should be developed among participants of different industries. currently undergoing technological transfer.

CONCLUSIO

In Thailand and any other newly industrialized countries with technology transfer from the First World Countries, there are undoubtedly any hezards in both rure] and urban living. Accidents in agricultural and industrial settings are related inversely to work experience, that is the most hazerdous time is at the beginning of the job. This indicates a lack of appropriate job placement and training as well as supervision. Farming families would be more careful in introducing their children to the different tasks in agriculture and the range of risk factors may be smaller than for industry.

When a young Thai begins work in a factory, he or she is isolated from family and neighbours that have been their sole support since birth. The employer replaces all previous paternal roles, and all too frequently ignores the needs of this vulnerable employee. In the event of illness, accident and even injury on the job, the employee is considered unreliable and is therefore terminated. Employees tend to ignore nutritional standards and avoid medical treatment for attention and taken to medicul practificaners. Any of the manufacture is not made known to the employee and no remedial bealth activities are provided. Those who develop serious symptoms are terminated. Those who develop serious

Ellness and accident incidents are recognizable and attributable to certain working conditions. But have is a wider swhere o influence with possibly peeper hazards that goes unrecognized industrial workers live in congested areas. There recordes and support services are overwhelmed. Housing facility, food center, bus transport, drainage, water supply, schools for children and all the other supports for urban living are exhausted by the numbers of citizens. There has not been sufficient study on the long-term health and social impact of such continuing stress. Possibly urban crime, drug addiction, weakening of the family, are related to the crush of humanity and the demands of city living. It is a nearuniversal consensus in Thailand that the further a person lives from the city, the better the living atmosphere and the better circumstances to raise a family.

This is not just an issue with children, but has impact on women and senior members of the family. On the farm, men and women contribute equally to the work pool. In city life and especially factory work, women are given the least-well paying positions. In city, family life just does not have the flexibility to maintain older non-productive relatives. Often children of working mothers are sent to live with their rural grandparents. This breakdown in family roles represents a departure from centuries of loving tradition.

It might be said that the picture represented here is equally applicable to all agrarian countries who industrialize. They all experience a lag or gap in governmental supervision and in management skills while enterprises are gaining some initial security. But such a philosophic view does not give excuse to the high fatality and other accident rates in industry. As the recording and reporting systems gains expertise, these rates seem to be increasing, and increasing beyond the levels that industrial growth would account for. Also, Thailand makes a a poor showing on the recognition of serious hazardous problems caused by technology transfer from the First World Countries. The government welcomes technology transfer as the means to increase productivity. This is

-17-

Lawless, Edward : Technology and Social Shock, Ruigers

to compete with other neighbour countries for export aiming at the economic growth of the nation. General public including common people and academicians are relatively unawared of the adverse effects or blind in finding the way out. This lack of immediate solution and the lagging behind of neighbouring newly industrialized nations tends to be an invitation for greater effort for nation surveys and international participation in projects to relieve the burdens placed disproportionately on the workers in Thai society. cites poor

BIBLIOGRAPHY

- 1982.
- Massachusette, 1985.
- University Press, News Brunswick, New Jersey, 1977.
- Ministry of Interior, Bangkok.
- of Interior, Bangkok, 1985.
- Jan. 7 18, 1985.

center, bus transport, drainage, water supply, schools for

exhausted by the numbers of citizens. There has not been sufficient study on the long-term health and social impact of such continuing stress. Possibly urban crime, drug of humanity and the demands of city living. It is a nearuniversal consensus in Thailand that the further a person the better circumstances to raise a family.

This is not just an issue with children, but has impact on women and senior members of the family. On the farm, men and wamen contribute equally to the work paol. In city life and especially factory work, women are given the least-well paying positions. In city, family life fust does not have the flexibility to maintain older. non-productive relatives. Often children of working mothers are sent to live with their rural grandparents. This breakdown in family roles represents a departure from centuries of lowing tradition.

It might be said that the picture represented here is equally applicable to all agrarian countries who industrialize. They all experience a lag or gap in governmental supervision and in management skills while enterorises are gaining some initial security. But such a philosophic view does not give excuse to the high fatality and dther accident rates in industry. As the recording and reporting systems gains expertise, these rates seem to be increasing, and increasing the First World Countries. The government welcomes technology

1. ILO : Choice of Technology and Working Conditions, Geneva,

tions in plants

2. Ives, Jane : Transitional Corporations and Environmental Control Issues, Routledge & Kegan Paul plc, Boston,

3. Lawless, Edward : Technology and Social Shock, Rutgers

4. Year Book of Labour Statistics 1984, Department of Labour,

5. Labour Administration Report, Department of Labour, Ministry

6. Morris, Julius : "Worksite Health Promotion and Protection in Rural Settings", presented at the International Health Promotion and Disease Prevention Conference, Honolulu, Hawaii,

to compete with other neighbour countries for export aiming at the economic growth of the mation. General public including common people and academicians are relatively unawared of the adverse effects or blind in finding the way out. This lack of effort for nation surveys and international participation projects to relieve the burdens placed disproportionately. the workers in Thai Society.

- 2. : Ives, Jane : Transitional Corporations and Environmental Control Issues, Routledge & Kegan Paul plc, Boston,
- 3. Lawless, Edward : Technology and Social Shock, Rutgers University Press, News Brunswick, New Jersey, 1977.
- 4. Year Book of Labour Statistics 1994, Department of Labour,
- of Interior, Bangkok, 1985.

The secondal to enfirme regulations have contributed of the in thert supply and moder 20 instruments are the Merkers thomselves, reports MICHELLE MIBLER, all also linement of eafery precautions.

Thursday, September 26, 1985

Report cites poor conditions in plants • '20 workers died in Samut Prakarn'

MOST workers in industrial plants in Samut Prakarn, one of the country's largest industrial zones, are working under physically and mentally unhealthy conditions, according to a study by Mahidol University.

The study by Maindol University. The study, conducted by Dr Mainee Wong-panich of the Faculty of Public Health of the associates said that 20 workers were killed and 208 were maimed while working last year. It also found that another 9,484 workers

a noise, dusts and hot work

ina hoasting of batter-than nose and throat infecti Six of the company's 400 workers were for lead poisoning.

In January, 1981 alone. The firs has a full-time physician a Memory. Accidents are few. As there are no quotas to be land and workers can take frequent breaks in a small get

> in of Asia, 1632 Indiana St., Makies, Manila, Philippines or P.O. Box 1843. Telephone Numbers: 505025 & 581478. Cables: PRESSASIA MANEL

P.5

LOCAL & REGIONAL NEWS

provide annual health Consequently, the check-ups for their majority of chemical employees at all. workers have lung The study found that problems and also pain most textile factories in parts of their bodies, are located in heavily it says. populated areas and As for the

are located in heavily populated areas and are poorly designed with improper ventila-tion systems. It said the majority of the textile workers are suffering from lung discovered that 25.5 per cent of its employees have prob-lems with their eyes as well as their sight and particles sent out by old machines. About 54 per cent of the study calls for

system, the provision of individual safety of individual safety equipment, the reduc-tion of dust, noise, and fumes inside the plants, security within factory compounds and periodical medical check-ups for workers. Meanwhile, provin

cial authorities said yesterday that the province, in coopera-tion with other government and private organizations, was organizations, was planning to establish a service centre for safety and health for safety and neares. industrial workers. contre will

The centre will provide free advice and conduct a study on safety and health for both workers and their employers. The con-struction of the centre is expected to complete in 1987.

Inadequate labour legislation and an acute shortage of qualified personnel to enforce regulations have contributed to the neglect of health and safety. Trained medical personnel are in short supply and modern instruments are not available. Worker's themselves, reports MICHELLE HIBLER, are also ignorant of safety precautions.

Occupational Ailments, chairperson of the department of accupational health Injuries Rising At A ta School of Public Realth, says that working conditions Fast Clip In Thailand

alarciorakarn provand

to the 1800s. BANGKOK (Depthnews) -- Thai workers, like a young woman I saw in a dusty bagging plant, are exposed to unhealthy working conditions. live in crowded, dirty dormitories, often directly above the shop In battery manufacture, face masks are not sufficient to prevent lead poisoning, while steel workers pouring molten ore are often without gloves, masks or eye protectors. If for and any source shortage of qualified personnel to

Fregulations have contributed to the unplost of health and safety for The drive to increased productivity in many other enterprises has resulted in high rates of illness and numerous accidents. In 1977, for instance, more than 7,000 metropolitan workers here were hospitalised for work-related injuries, a 20-fold increase since 1960.

An estimated additional 20-30 percent of work injuries went unreported. No statistics are available on occupational diseases resulting from long-term exposure to noise, dusts and hot working places or to various toxic chemicals and physical hazards. recommendations on portion conditions are unde by institutes like the

But in a firm boasting of better-than-average working conditions, the staff doctor of a wet-cell battery company has treated 303 respiratory complaints, 117 eye, ear, nose and throat infections, 71 gastrointestinal disorders and 32 cases of skin irritations. Six of the company's 400 workers were hospitalised for lead poisoning.

That was in January, 1981 alone. The firm has a full-time physician and a small dispensary. Accidents are few. As there are no quotas to be met, the pace is relaxed and workers can take frequent breaks in a small garden. is greatly looked into the compational health problems of 600 textile workers

Press Foundation of Asia, 1632 Indiana St., Malate, Manila, Philippines or P.O. Box 1843, Manila, Philippines Telephone Numbers: 505026 & 591478. Cables: PRESSASIA MANILA

LOCAL & REGIONAL NEWS Thursday, September 26 1965 / 5

Report cites poor conditions in plants • '20 workers died in Samut Prakarn'

MOST worlders in industrial plants in Samut Frakturo, one these laciasy workers the unprevented of the country's largest industrial zones, are working under and have have having conditions of the problems because of future down physically and mentally unneathly conditions, according to acco

physically and annually undramiting the second structure and the second structure of the second structure and the second

The forst leaves in parts or new many parameter a second and are located in heavily is any a four the metals served ranks for perulated areas and its for the metals served back for an party deviced individiry, the repeat metalicity there with mapping results. Another device the set its perulate fit occurs will that the repeat could be repeated the set its perulate fit occurs of the set its result.

It and the comparison comparisons may be an order of the part of the textile survers from which there ever an solid and then for each of the four body well as effect right is worker, and then assume caused is one and any to the force incomparison of the compa-particles are and any to the force and incoming of the compa-tion particles are and any to the force and incoming of the compa-tion particles are and any to the force and incoming of the compa-tion of the comparison of the force and incoming of the compa-tion of the comparison of the force and incoming of the compa-tion of the comparison of the force and incoming of the compa-tion of the comparison of the force and the company of the compa-tion of the company of the force and the company of the com

-21-

DNSS #75-81



charles often reactive those in Europe during the Industrial

More

DNSS #75-81

Inadequate labour legislation and an acute shortage of qualified personnel to enforce regulations have contributed to the neglect of health and safety. Trained medical personnel are in short supply and modern instruments are not available. Workers themselves, reports MICHELLE HIBLER, are also ignorant of safety precautions.



Occupational Ailments, Injuries Risiog At A Rast Clip In Thailand

BANGKOK (Depthnews) -- Thai workers, like a young woman I saw in a dusty bagging plant, are exposed to unhealthy working conditions. In battery manufacture, face masks are not sufficient to prevent lead poisoning, while stael workers pouring molten ore are often without gloves,

masks or eye protectors.

The drive to increased productivity in many other enterprises has resulted in high rates of illness and numerous accidents. In 1977, for instance, more than 7,000 metropolitan workers here were hospitalised for work-related injuries, a 20-fold increase since 1960.

An estimated additional 20-30 percent of work injuries went unreported. No statistics are available on occupational diseases resulting from long-term exposure to noise, dusts and hot working places or to various toxic chemicals and physical hazards.

But in a firm beasting of better-than-average working conditions, the staff doctor of a wet-cell battery company has treated 303 respiratory complaints, 117 eye, ear, nose and throat infections, 71 gastrointestinal disorders and 32 cases of skin irritations. Six of the company's 400 workers were hospitalised for lead poisoning.

That was in January, 1981 alone. The firm has a full-time physician and a small dispensary. Accidents are few. As there are no quotas to be det, the pace is relaxed and workers can take frequent breaks in a small garden.

Press Foundation of Asia, 1632 Indiana St., Malate, Manila, Philippines or P.O. Box 1843, Manila, Philippines Telephone Numbers: 606026 & 591478. Cables: PRESSASIA MANILA

Thai workers 2

More than 1,000 factories are located in Samutprakarn province, just outside Bangkok, employing some 64,000 workers, 80 percent of whom are in textile, fabricated metal products and chemical industries.

Dr. Malinee Wongpanich, chairperson of the department of occupational health of Mahidol University's School of Public Health, says that working conditions in these factories often resemble those in Europe during the Industrial Revolution in the 1800s.

Living conditions are also inadequate. Many workers, 90 percent of whom are migrants, live in crowded, dirty dormitories, often directly above the shop floor.

Inadequate labour legislation and an acute shortage of qualified personnel to enforce regulations have contributed to the neglect of health and safety for Thai labourers. Trained medical personnel are in short supply and modern instruments are not available. Workers themselves are also ignorant of safety precautions.

Thailand's industrial health activities are limited to pre-employment physical examinations, annual chest X-rays and curative medical care. They are administered by part-time doctors, factory nurses, or -- more often -- first aid attendants, many of whom are untrained.

While recommendations on working conditions are made by institutes like the Ministry of Health, improvements are left to the factories' discretion. Many factory managers are completely ignorant of the few safety standards set by the Government.

As the fast industrialisation of Thailand continues, conditions are expected to worsen if present trends continue.

Because scientific research in this area has been scarce, no data exists to convince policy makers of the need for action. Thus, in 1979 Mahidol University looked into the occupational health problems of 600 textile workers in Samutprakarn province.

More

2 stadiow lad Thai workers 3

More than 1,000 factories are located in Samutprakarn province, just outside Bangkok, employing some 64,000 workers, 80 percent of whom are in textile, fabricated metal products and chemical industries.

Dr. Malinee Wongpanich, chairperson of the department of occupational health of Mahidol University's School of Public Realth, says that working conditions in these factories often resemble those in Europe during the Industrial Revolution in the 1800s.

Living conditions are also inadequate. Many workers, 90 percent of whom are migrants, live in crowded, dirty dormitories, often directly above the shop

Inadequate labour legislation and an acute shortage of qualified personnel to anforce regulations have contributed to the neglect of health and safety for That labourers. Trained medical personnel are in short supply and modern instruments are not available. Workers themselves are also ignorant of safety precautions.

Thailand's industrial health activities are limited to pre-employment physical examinations, annual cheat X-rays and curative medical care. They are administered by part-time doctors, factory nurses, or -- more often -- first aid attendants, many of whom are untrained.

While recommendations on working conditions are made by institutes like the Ministry of Health, improvements are left to the factories' discretion. Many factory managers are completely ignorant of the few safety standards set by the Covernment.

As the fast industrialization of Thailand continues, conditions are expected to versen if present trends continue.

Because scientific research in this area has been scarce, on data exists to convince policy makers of the need for action. Thus, in 1979 Mahidol University looked into the accupational health problems of 600 textile workers in Samutprakarn province. The findings proved the need to set up a local industrial health unit in Samutprakarn Provincial Hospital, which was then expanding its facilities. The unit will be the first of its kind in Thailand.

Following the initial study, the Department of Occupational Health launched a larger one. Headed by Dr. Malinee and supported by Canada's International Development Research Centre (IDRC), the project will also train and evaluate industrial health personnel at all levels. It will develop a model for industrial health services involved — the provincial hospital, medical and labour offices, and the Occupational Health Centre of the Ministry of Health.

The industrial health study in Thailand was the first such project supported by IDRC. A second IDRC-supported study, by the Singapore-based Asian Association of Occupational Health, will review occupational health conditions in several Asian countries.

Studies of working conditions, interviews, and physical examinations of workers in three representative medium-sized factories confirmed Dr. Malinee's worst suspicions.

In the foundry, for example, accidents are common: strains from carrying heavy loads; burns from molten ore; eye damage from exposure to ultraviolet and infrared radiation and flying metal chips. Lung and respiratory damage results from exposure to carbon and iron oxide dust, and to toxic and irritating gases. Skin inflammation is common.

The study showed that while 69 percent of workers have abnormal lung functions and hearing impairments, 54 percent have visual abnormalities. A high manganese content was also found in blood and urine samples.

Workers themselves are partly to blame. "We have spent money on safety devices," says one foundry manager, "but the workers won't wear them." More than anything, he wants to know how to motivate them toward safe working practices.

More

r the tob in any

Thai workers 4

E adaptov hall

For instance, in a dark, noisy smelting section of a foundry, a number of workers are not wearing dust masks or hard hats provided. Some guide the 20-ton bucket of molten ore with wooden sticks and remove the just-poured ingots without gloves.

Because of the intense heat in one section where red-hot metal is made into wire, workers have removed their shirts, increasing the possibility of burns. The sole dust collector is out of order.

Similarly, in the wet-cell battery plant, workers grinding lead into powder are not wearing the gauze face masks provided -- inadequate for the job in any case. Others are mixing acid without gloves.

Shift work further endangers workers in the textile mill. Statistics have shown accidents are more frequent during the night shift when lighting is poor and supervision more lax. Health problems of textile workers include inflammation of the mouth, skin diseases and varicose veins caused by standing for long periods at the machines.

Visual abnormalities were found in 26 percent of textile workers, and hearing losses in 49 percent, particularly those in the weaving section. The noise and dust levels were above legal limits, while lighting was below standards.

Last March, Dr. Malinee and her team revisited the factories to inform managers about the training course offered for first-aid attendants, factory and private doctors and other health workers. By testing trainees after their return to work, the impact of the courses will be evaluated. Meetings with senior management will also be held to increase their awareness of health and safety problems and solutions.

Together with resource persons, representatives of different provincial and national agencies will draw up a feasible basic model of provincial industrial health services -- the first attempt in Thailand to coordinate existing institutions and services at the provincial level. Interest is already growing.

The findings proved the need to set up a local industrial health unit in Finding Provincial Hospital, which was then expanding its facilities. The rest will be the first of its kind in Thailand.

Collowing the initial study, the Department of Occupational Health Launched a larger one. Headed by Dr. Malinee and supported by Canada's International Devicement Research Centre (IDRC), the project will also train and evaluate in initial health personnel at all levels. It will develop a model for industrial selft services involved -- the provincial hospital, medical and labour offices, and the Occupational Health Centre of the Ministry of Health.

A statistical health study in Thailand was the first such project supported a statistic. A second IDRC-supported study, by the Singapore-based Asian Association a statistic statistic statistic study and the statistic statistic statistics in several a statistic statistic statistic statistic statistics in several statistics statistics in several statisting statistics in several statistics in sev

and physical of working conditions, interviews, and physical examinations of workers to birbe representative medium-sized factories confirmed Dr. Malinee's worst sumpleions.

In the foundry, for example, accidents are common: strains from carrying inary inade; burns from moltan ore; eye damage from exposure to ultraviolet and initated radiation and flying metal chips. Lung and respiratory damage results from exposure to carbon and iron oxide dust, and to toxic and irritating gases. Skin inflammation is common.

The study showed that while 69 percent of workers have abnormal lung functions and hunring ispairmants, 54 percent have visual abnormalities. A high manganese contend was also found in blood and urine samples.

Norkets themselves are partly to blame. "We have spent money on safety devices," anys one foundry managar, "but the workers won't wear them." More than anything, he wants to know how to motivate them toward safe working prectices.

More

That workers 4

For instance, in a dark, noisy smalting section of a foundry, a number of workers are not wearing dust masks or hard hats provided. Some guide the 20-ton bucket of molten ore with wooden sticks and remove the just-poured ingots .sovels jucible

-24-

Decause of the intense heat in one section where red-hot metal is made into wire, workers have removed their shirts, increasing the possibility of burns. The sole dust collector is out of order.

Studiarly, in the wet-cell battery plant, workers grinding lead into powder are not wearing the gauge face masks provided -- inadequate for the job in any case. Others are mixing sold without gloves.

Shift work further endangers workers in the textile mill. Statistics have shown accidence are more frequent during the night shift when lighting is poor and supervision more las. Health problems of textile workers include infimmation of the month, skin diseases and varicose veine caused by standing for long periods at the machines.

Visual abnormalities were found in 26 percent of textile workers, and hearing losses in AP percent, particularly those in the weaving section. The noise and dust levels were above legal limits, while lighting was below standards.

Last March, Dr. Mailage and her team revisited the factories to inform managers about the training course offered for first-aid attendants, factory and private doctors and other health workers. By testing trainees after their return to work, the impact of the courses will be evaluated. Meetings with senior management will also be held to increase their awareness of health and safety problems and solutions.

Together with resource persons, representatives of different provincial and national agencies will denot up a feasible basic model of provincial industrial health services -- the first attempt in Thailand to coordinate existing institutions and services at the provincial level. Interest is already growing.

More

Thai workers 5

In the factories studied, simply identifying the problems has brought about improvements. The foundry manager wants access to the training materials and audiovisual aids developed in the course of the project for use in teaching factory workers.

90% of factories have

safety problems

One plant supervisor wants further studies of chemical toxicity problems. "I have a right to my life," he says. - Depthnews Science

> ABOUT 90 per cent of indust- entry r been lagored while on the rial plants nation-wide still have job or complicated occupational safety problems and more than discusses. The real figure could be 40:000 working wore injured because of occupational diseases

injurice and limesses were reported in amall and meeting-sized. factories where safety standards

these factories have very little knowledge about antitie These employ no since then by workers

workers on safely.

show that about 60 per cent of the silequate safety measures for

workers were repeated to have encouraging massive he said

much higher than this, he used. Or Oht and a mirver by Brinks

of the Groupstinian Heath that find proceeding fectories recorded the highest inviber of

onne with operational hazarde. faintenting agentav as "andestrial

He says plast owners beluntari-

and markets the construct startes industrial

That workers 5

In the factories studied, simply identifying the problems has brought about improvements. The foundry manager wants access to the training materials and audiovisual aids developed in the course of the project for use in teaching factory workers.

One plant supervisor wants further studies of chemical toxicity problems. "I have a right to my life," he says. - Depthnews Science

their workers. In 1984, a total of 41.056 workers were reported to have

ABOUT 90 per cent of indust-rial plants nation-wide still have

safety problems and more than 40,000 workers were injured

while on the job or became ill

because of occupational diseases

last year, a senior health official

Deputy Director General of the Health Department Dr Ulit

Leeyavanija said most of the injuries and illnesses were repor-

ted in small-and medium-sized

factories where safety standards

He said most of the workers at

these factories have very little

knowledge about safety. These small-and medium-sized factoreis

employ no more than 50 workers

He also blamed owners of these factories for their indifference in

providing education to their

workers on safety. Surveys by the department show that about 90 per cent of the 96,000 industrial plants through-

out the country do not have

adequate safety measures for

said yesterday.

are normally low.

each.

12

THE NATION October, 1986

-26-

90% of factories have

safety problems

either been injured while on the job or contracted occupational diseases. "The real figure could be much higher than this," he said.

Dr Ulit said a survey by officials of the Occupational Health Division of the department found that food processing factories recorded the highest number of injuries of workers. They were followed by metal factories and textile factories.

They recorded a total of 7,551, 5,346 and 4,143 cases of injuries respectively last year.

Commenting on measures to cope with occupational hazards, Dr Ulit said the Health Department has organized the so-called "voluntary public health prog-ramme" at various industrial plants.

He said plant owners voluntarily join the programme in which they are educated on the occupational hazards and related laws and regulations.

The programme was introduced in Samut Prakarn which is one of the country's largest industrial zones and has received an encouraging response, he said.

BANGKOK POST,

owners. Health academicians agree that it is high time the Government inter-venes and reaches some kind of understanding with owners of the factories to set up a proper health care system for the sake of the em-ployees. There are so many kinds of health mazards which stem from the working condition in the factory. Bad ventilation, noise level and long working hours are some of the more obvious examples. Dr Malinee Wongpanich of Mahi-dol University's Faculty of Public Health reports after conducting an extensive factory survey that work-ers in small workshops are more counterparts in medium and large

According to Dr Malinee's report, most small factories have a single owner, often a Thai-Chinese na-

tional. And by nature the owner usually wants to get the maximum return out of the minimum expense possible. The result is that small factories often have inadequate equipment and are lacking in any safety and health care measures alto-

gether. The survey shows that a large number of workers in small textile factories suffer from chronic cough, cheet tightness and other respiratory concentrations, especially in the some small textile factories where workers have to put up with cotton dust particles all day long and every-ics invariably suffer some degrees of deafness with both groups showing a decline in the mean hearing level. Irritations caused by fine dust particles on the skin and eyes are and battery factories. Most workers complain of working how hours with very little rest in between. Many people suffer from backache, dizziness and fatigue.

WITH IN: According to the survey, more than half of the small workshops are ille-gally set up and official hands cannot reach them.
And even when they are legal itseems that they are rarely inspected by industry officials.
Why? When government officials claim that they make frequent checks on all factories, why do a great number of these sub-standard facto-ries still exist?
It may be too harsh to accuse government agencies of turning a blind eye to the working and health conditions of the unfortunate work-ers but it is no exaggeration to say that so far the Government has not paid much attention to them. After all, we must not forget that indus-trial workers play an important role in developing our country's economy.

ing. Some factory owners may argue that physical harm is sometimes due to the ignorance of the workers them-selves. In factories where the noise level exceeds the safety regulation, the owners claim they have provided employees with ear plugs but these are often not used for reasons of inconvenience. That may be true in some cases

because the survey also shows that only five per cent of workers wear ear plugs while working but it certainly does not apply to all. Recent strikes held by factory em-ployees have shown that today they are more aware of and concerned about occupational hazards than be-fore. A list of their demanda usually include requests to improve safety measures and the working condition within the factory. Unfortunately, most strike ends up with workers not getting what they have asked for. In a period of tight economy such as this, employers and workers should both make an effort to come to a compromise. And one would like to urge, workers, if they are staging a protest, to change their strategy from demanding more pay to asking for factory workers and improve their better benefit in the long run. Y As: for the government, agencies for factory workers and improve their working environment. Lost productivity arising from acci-dents and unsanitary condition in workplaces must now be taken into account if the Government wants to develop, the country's economy effec-tively.

safety problems ABOUT 90 per cant of industrial plants nation-wide still have safety problems and more than 40,000 workers were injured

90% of factories have

while on the job or became ill because of occupational diseases last year, a senior health official said yesterday.

said yesterday. Deputy Director General of the Health Department <u>Dr</u> Ulit <u>Leevavanija</u> said most of the injuries and illnesses were reported in small-and medium-sized factories where safety standards are normally low.

He said most of the workers at these factories have very little knowledge about safety. These eierotost bezie-muibem bne-lle employ no more than 50 workers.

factories for their indifference in providing education to their workers on safety.

abow that about 90 per cent of the 96,000 industrial plants throughadequate safety measures for their workers.

In 1984, a total of 41,056workers were reported to have encouraging response, he said,

either been injured while on the job or contracted occupational discases. "The real faure could be

NATION

Dr Ulit said a survey by officials of the Occupational Health that food processing factories recorded the highest number of injuries of workers. They were followed by metal factories and

5,346 and 4,143 cases of injuries respectively last year.

Commenting on measures, to cope with occupational hazards, Dr Ulit said the Health Department has organized the so-called voluntary public health programme" at various industrial

He said plant owners voluctarily join the programme in which

zones and has received an

(SMALL INDUSTRIES salety Vorkers cr , health measures 4 บางกอกโพสต์ วันพุธ ANGKOK Post 32 for bette 9 สิงหาคม W.A. badlan -Aucust, 19.84

convulty on the factory fluor.

28 Fab. 1981

WHILE medium and small indus-tries are being promoted by the Gov-ernment, safety and health condition of the industrial workers seemed to have been forgotten, if not ignored. A large number of small industries have failed to implement their facto-ries with equipment that can ensure the safety of workers and prevent any health hazards. Some because of ignorance while others are inten-tional on the part of the factory owners.

Suporn Pornsrisuk

-by-

How do these with it? factories get away

4 บางกอกโพสต์ วันศุกร์ ที่ ๒๘ กุมภาพันธ์ พ.ศ. ๒๕๒៩



factory floor

FEW people will be surprised to learn that impaired hearing has and other protective gear. Work is conducted minus the use of become one of the most common afflictions affecting workers. The problem has long since passed the nuisance stage and it is time for action to minimise this health hazard. Present safeguards and protection extended to workers by employment injury compensation and benefits are clearly inadequate.

The number of occupational diseases is on the rise. Not very long ago, the International Labour Organisation added 16 new items to what appears to be an interminable list of incapacitating illnesses contracted on the job. They include occupational asthma, asbestos-induced lung cancer and diseases caused by cadmium, fluorine and hydrogen sulphide as well as by work done with compressed air.

The proposed additions also cover diseases caused by vibration, exposure to various dusts, asphyxiants and industrial solvents, and various types of skin diseases.

We do not have to look beyond our national boundaries to come face-to-face with working conditions that easily give rise to any one of these diseases, if not all. Illegal battery factories operating in suburban Bangkok, for example, are notorious sources of lead poisoning. Workers smelting old batteries to obtain their lead content can be found working with the absence of masks



พิลหไดงกราน

JHNE

0

JAMZ

-28-

BANGKOK POST, 28 Fab. 1986

1908topinion

Danger on the

enclosed chambers, multiplying the danger of industrial acci-dents and health problems.

Makeshift glass factories, where work is conducted under extreme heat, are equally dangerous. In other workplaces involving the use of pneumatic tools and chain-saws high frequency vibration can cause serious disorders to the bones and joints, including the peripheral nerves and peripheral blood vessels.

Some people would say that presented with such harmful working conditions, workers owe it to themselves to refuse employment in these places. Try telling that to a lowly-paid family breadwinner. Or do it another way. Try to talk factory operators into improving conditions at the workplace. Either way, the most likely reaction is one of indifference.

There is a major need for closer supervision by government inspectors of industrial operations. Two things are of equal importance here: more effective preventive measures against industrial health risks, and the workers' right to claim appropriate compensation bene-

There is also a very important time element. Every day that officials waste in blaming lack of action on a shortage of trained industrial inspectors could result in another needless death or casualty on the factory floor.

BANGKOK POST, 28EL 1986

4 บารกอกโพสต์ วันสุกร์ ที่ ๒๙ ถุบภาพันธ์ พ.ศ. ๒๕๒๕

A BORIOPINION Danger on the factory floor

FEW people will be surprised to learn that impaired hearing has become one of the most common affilictions affecting workers. The problem has long since ti has exate someains out becau is time for action to minimize Unis health hazard. Present safeguards and protection extended to workers by employment inlary compensation and benefits are clearly inadequate,

The number of occupational diseases is on the rise. Not very long ago, the International Lawen 81 bebba nedinainauro uned items to what appears to be an interminable list of incapacitating illnesses contracted on the job. They include occupational asthma, aspestos-induced lung cancer and diseases caused by cedmium, fluorine and hydrogen sulphide as well as by work done with compressed air.

ouver diseases caused by vibration, exposure to various dusts, los Isintenbal bas sinairvigas vonts, and various types of skin.

We do not have to look working conditions that easily give rise to any one of these diseases, if not all. Illegal battary factories operating in suburban Bangkok, for example, are notorious sources of lead polsoning. Workers amelting old batteries to obtain their lead content can be found working with the absence of mashe

and other protective gear. Work is conducted minus the use of enclosed chambers, multiplying the danger of industrial and dents and health problems.

Makeshift glass factories, where wark is conducted ander extreme heat, are equally dangerous. In other workplaces involving the use of pneumatic tools and chain-saws high frequency vibration can cause serious disorders to the bones and joints, including the peripheral boold laredging has sevin Vessels.

Some people would say that presented with such harmful working conditions, workers owe it to themselves to refuse employment in these places. Try telling that to a lowly-paid family breadwinner. Or do it another way. Try to talk factory operators into improving conditions at the workplace. Either way, the most likely reaction is

There is a major need for closer supervision by government inspectors of Industrial equal importance here: more against industrial health risks. and the workers' right to claim appropriate compensation bene-

There is also a very important time element. Every day that officials waste in biaming lack of action on a shortage of trained industrial inspectors could result in another needless death or casualty on the factory floor. BANGKCK MCST, April 1986

Governments in Asia, Pacific region asked to cooperate in resolving labour problems

By Our Reporter Governments in the Asia and Pacific region should work closely together to resolve the emerging problems in the field of manpower which are confronting the nations today.

Manpower Minister Sudomo made the remark Monday, when opening the International Federation of Chemical, function as a very effective countries that are importing Energy, and General Workers funions (ICEF) Asian and Pacific regional seminar with the main subject on occupational heath and safety.

Sudomo also aired the need to build a more effective and efficient framework within which, to reduce unemployement and underemployement, but also to improve working conditions. health, and safety, including the living standards of all workers ...

member country." UNDERSTANDING AND COOPERATION Meanwhile, the general chair-

In the recent economic reces- man of the Indonesian Labor ment as well as its trade unions.* countries.

sion it nedds tocreate understan- Federation ... (FBSI) Agus ding between employees and in- Sudono, said that the major dustrialists, or between, the part of occupational health and workers and employers so as to safety could be solved if there? make problems less com- is good understanding and plicated, and to have good and cooperation between the inpeaceful relations. To support dustrialized countries which are this, Sudomo said, the bipartite exporting the technology and inand tripartite systems should dustries, and the developing means for the employees, them. employers and the government. Agus Sudono said that such

Sudomo said that Indonesia, understanding and cooperation is cognizant of the benefits to be could be strengthened by involvderived by cooperation and col-ing the sorkers and employers laboraion among the govern- organizations of the respective This atmosphere should be To last until September 27, each government in the region developed among workers and the regional seminar was will be able to work more close- trade unions in the region, organized by the FBSI, in ly with their respective trade because it will help to improve cooperation with the ICEF, and unions, the employers' and the economic and social condi- was attended by 100 parworkers' associations, not only tions of workers in each ticipants from 14 countries in : the Asia and Pacific region. The seminar will also discussed the trade unions situation in the Asia and Pacific region, the situation concerning the Collective Labor Agreement (CLA), and the women workers situation in the Asia and Pacific region. ... The opening ceremony was also attended by the president and secretary general of ICEF. Moss Evans, and Michale D. Boggs. .solves? [Ras];

- the - needed a the

LIFE, SOCIAL AND HEALTH CONDITIONS OF THAI INDUSTRIAL WOMEN WORKERS

by

Malinee Wongphanich, M.D. Occupational Health Department Faculty of Public Health, Mahidol University Bangkok, Thailand

Presented in the seminar on anthropotechnology at Ergonomie et Neurophysiologie du Travail, Paris

5 June 1987

CONTENTS

Introduction A BORN-TO-BE 7 Background information General identification and attit workers An eleven year old girl; Thai textile women workers popul mulsion and mental retardation. Discussion of the overall views a. The factory owners b. Textile management back c. Textile workers mentali d. Textile management and e. Unions and women worker f. Women's organizations i The government g. h. Transferability of work

Transferability of work textile mills to oth

Recommendations on in-put condui Final Conclusion

Bibliography

Appendix : Press views
"The Weavers"

	page
NAT CITE	1 - 3
INT CLIC	4 - 5
tudes of women textile	
born to a family of we	6 - 13 t-cell batt
lation identification	14 - 20
All / children born t demonstrated certain sy	ptons 21 L
	22
rground	23 - 24
lty	24 - 25
labour relations	25 - 26
s	27 - 28
n Thailand	28 - 29
	29 - 33
-living conditions in	
er industries	34 - 34
ts	35 - 40
- J C	41 - 42
1 And	
	43 - 44
<u>Li</u>	45 - 47
	48

A BORN-TO-BE THAI GIRL

worth to be kept stent Brief history

An eleven year old girl, born to a family of wet-cell battery repairment occupation, shows specific toxic lead symptoms with irregular convulsion and mental retardation. All 7 children born to this family are exposed to lead fume and have demonstrated certain symptoms of lead poisoning.



sterus or a

Caseral Mant Beetin and attitudes of Kneh textile

That resultle when we keeps population identification

make there are in the minister of the 8 Ine fectory ease 8

Pertile magement background 23 4.24

Settie wikers wardallty 25 - 26 di Textile nanaganent and labour relations 27 - 28 previous minute bar actual. To

brakini ni ambinisinano elimiti . i 28.4 29

at enalgibring and E-Now to within a 34 4 34

85

143. 4 44 angendin A Press views 45 -. 47



INTRODUCTION COME legislation sized at allegisting occupational

bealth hazards likely to affect

worth to be kept sight of :-

In 1975, the United Nations General Assembly began its "Decade for Women : Equality, Development and Peace. The Program for Action, on the second half of the decade in 1980, lists with great clarity the recommendations⁽¹⁾ to be achieved in this remaining five-year period. Among them are :

The access of women to special technical training programmes should be increased and women so qualified should be helped to obtain job suited to their individual skills; legislative measures should be enacted and appropriate legal assistance provided to prevent exploitation based on sex, race, age, marital status or motherhood in both the traditional and modern sectors. In addition, measures should be taken to ensure that women are introduced, on the same footing as men, to new types of training in the advanced technologies which are now being widely developed.

e American Medical As

The access of women workers to recreation and culture should be increased since their double workload prevents them from having enough necessary free time; it is therefore essential that household chores and family care should be shared by men and special emphasis should be placed on the obligation of couples to share household tasks with a view to facilitating the access of women to gainful employment.

Develop policies to ensure a safe working environment both in the home and the work place and provide adequate technology to relieve the workload of women. Carry out specific studies on labour hygiene and safety, particularly in branches of activity in which the health of women might be affected.

Brief History

An eleven year old girl, horn to a family of wet-cell bettery, reprizent occupation, shows specific toxic lead symptoms with integrilat convolution and methal retardation. All 7 children born to this family are ergoned to lead fune and have demonstrated certain symptoms of lead born to the second test of the second test of the symptoms of lead

The following are some of the international touchstones
Introduce legislation aimed at eliminating occupational health hazards likely to affect reproductive functions, reducing environmental pollution, and controlling disposal of toxic chemicals and radioactive waste.

-2-

Promote extensive health education programmes, including special efforts to encourage positive traditional practices, especially breast-feeding, and to combat negative practices detrimental to women's health.

"Provide new formal and extracurricular education to enable women to combine their household duties with the opportunity to improve their educational level."

All women, whatever their status, are important as human beings. The women who is in the labour force has the additional description as : child bearer and home-maker as well as industrial-economic participant. Women in textiles are also artisans, with an in-put into national heritage.

with the objectives of the act of labour itself

The American Medical Association, in its document, "Occupational Health Services for Women Employees". Points out that the working conditions favorable to men are also favorable to women and that the working conditions unfavorable to men are also unfavorable to women. That women then have additional health-related problems is due to sexual function : menstruation, pregnancy and child bearing. That occupational diseases and accidents are not partial nor more frequent with one sex over the other, although with married women, there is the added burden of family and home, which gives them more frequent absence, but men when sick take leave for a longer duration.

INTRODUCTIO

The following are some of the international couchs tones worth to be kept sight of :-

In 1975, the United Nations General Assembly began its "Decede for Nomen : Equality, Development and Peace. The Program for Action, on the second half of the decade in 1980, 11sts with grant clarity the recommendations⁽¹⁾ to be achieved in this remaining five-year period. Among them are :

The address of women to special technical training programmer article be increased and women so qualified should be helped to obtain job smited to their individual skills, legislative measures should be incred and appropriate legal assistance provided to prevent of their individual sectors age, marital status or motinerco of the traditional and modern sectors. In addition, measures of the traditional and modern sectors.

The access of women working on this satisfy and culture and the increased since their double working prevents them from every necessary iree time; it is therefore essential that there and family care should be should by men and prevent which a placed on the oblightion of couples to bld tasks with a view to fecilitating the access of employment.

Develop polities to ensure a safe working environment of in the local and the weik place and provide adaquate technology colleve the worked of women. Carry out specific studies on boot by provide adapty, particularly in branches of activity in the the boot of the might be affected.

The International Labour Organization, in its report, "Making Work More Human," began with what we discussed earlier, 'Mesmerised as we often are by short-term considerations, unaware at times of the connections between the various elements above (employment, remuneration, working conditions, environment, education, health and leisure), we are tempted in times of stagnation of orisis to put off to a better tomorrow the solving of issues that appear less urgent : the conditions of work has until now been one of them."

It then goes on to define its own objectives and in truth the objectives of the act of labour itself :

- workplace : the older days most textile enterprises were
- outside of work ; and ready export. But these companies
- work.

Farming and other aspects of agriculture provide the labor

Introduce legislation aimed at eliminating occupational health hazards likely to affect reproductive functions, reducing environmental pollution, and controlling disposal of texic chardcals and radioactive waste.

Promote extensive health education programmes, including special efforts to encourage positive traditional practices, especially breast-feeding, and to combat negative practices detrimental to women's health.

"Provide new formal and extracurricular education to enable women to combine their household dutles with the opportunity to improve their educational level."

All women, whatever their status, are important human beings. The winen who is in the labour force has the additional description as : child bearer and home-maker as well as industrial-economic participant. Women in textiles are also artisans, with an in-put into national heritage.

The American Medical Association, in its document, "Occupational Health Services for Womm Employees". Points out that the working conditions favorable to min are also favorable to women and that the working conditions unfavorable to men are also unfavorable to women. That women then have additional health-related problems is due to sexual function : menstruation pregnancy and child bearing. That occupational diseases and accidents are not partial nor more frequent with one sex over the other, although with married women, there is the added burden of family and home, which gives then more frequent absence, but men when side take leave for a longer duration.

- that work should respect the worker's life and health; this is the problem of safety and healthiness in the

- that it should leave him free time for rest and leisure ; this is the question of hours of work and their adaptation to an improved pattern of life

- it should enable him to serve society and achieve self-fulfilment by developing his personal capacities; this is the problem of the content and organization of

BACKGROUND INFORMATION

-4-

There is a constant over-hang of some one million rural workers who would enset any opening in the industrial-menufacturing sector. Thailand is a newly industrialized country, meaning that its recording and reporting systems have not caught up with current practices and conditions. Industry is scattered and largely not inspected by the government. Regulations permit the smallest shops to operate without any standards so as to be an entry-point for unskilled labour. Such shops are hidden among narrow back lanes among slum housing or empty lands behind bushes and tree far from facturing, with is traditional the main roads. a practices, which includes subsistance wages. This follows

The production of such minor enterprises is for domestic consumption, the machinery is second hand or repaired junk. Because of these characteristics, the enterprises are invisible to the national economy, they account for no imports, exports or balance of trade. In the older days most textile enterprises were of this nature. The production was in cotton for sarongs, casual shirts, mosquito net. Very few textile companies had the capacity to accept and fulfill foreign orders. In the modern days, there are many bigger enterprises turning out jeans with international labels and other lines that gain ready export. But these companies are largely foreign joint-ventures and although they can individually have a large work force, the number of technicallydeveloped garment factories is quite small to the number. of traditional textile factories.

Farming and other aspects of agriculture provide the labour pool. The enterprising and excessive populations of rural areas migrate to congested provincial centers seeking work in factories.

The International Labour (rganization, in its report, Nekting Work More Haven, " began with what we discussed earlier, 'Mesnerised as we often are by short-term considerations, unaware at times of the connections between the various elements above (employment, remuneration, working conditions, environment, education, health and leisure), we are tempted in times of stamation of orisis to put off to a better tenorrow the solving of issues that appear less urgent : the conditions of work has until now been one of them."

It then goes, on to define its own objectives and in truth the objectives of the act of labour itself

- this is the problem of safety and healthiness in the workplace :
- that it should leave him free time for rest and leisure ; this is the question of hours of work and
- self-fulfilment by developing his personal capacities; this is the problem of the content and organization of

There is a constant over-hang of some one million rural workers who would absorb any opening in the industrial-manufacturing sector. This competition keeps the price of labour depressed.

Of particular interest is the use of women in manufacturing. While in their farming families, women are given near equal responsibilities and opportunities as the men, once in the job market their value is drastically reduced. The largest employer of migrant women is in textile manufacturing, with is traditional business practices, which includes subsistence wages. This follows a pattern where jobs identified as "domestic" such as food preparation, child caring, sewing, are reserved for women at salaries that seldom attract men. Another factor in women's employment is their classification as short-term. Women are expected, and by large show, a higher turnover and shorter career life than men. Women are assumed to have a man somewhere who will provide them with a home if unemployed. To bring this picture into focus : women are accepted to marginal employment by manufacturers in marginal industries.

If in so liderets a form, such a case questions with milliple responses obtailing more than 100%. In such a case, is with other comparise, the unformation is given as an interpolation in the general structure. That general structure is "Khantana".

Flasse picture one young lady, she is that, works up a Sectile mill, and is a composite representative of all other insule That reache will conters. We will call her "Conterns" as that is a name converted out contents in content for carinace

BACKOROUND INFORMATION

Thailand is a newly industrialized country, meaning that its recording and reporting systems have not caught up with current practices and conditions. Industry is scattered and largely not inspected by the government. Regulations permit the smallest shops to operate without any standards so as to be an entry-point for unskilled labour. Such shops are hidden among narrow back lanes among slum housing or empty lands behind bushes and tree far from the main roads.

The production of such minor enterprises is for donestic consumption, the machinery is second hand or repaired jurk. Because of these characteristics, the enterprises are invisible to the national economy, they account for no imports, exports or balance of trade. In the older days most textile enterprises were of this nature. The production was in cotton for sarongs, casual shirts, mosquito net. Very few textile companies had the capacity to accept and fulfill foreign orders. In the modern days, there are many bigger enterprises turning out jeans with international labels and other lines that gain ready export. But these companies individually have a large work force, the number of technicallytraditional textile factories is quite small to the maker of traditional textile factories.

Farming and other aspects of agriculture provide the labour pool. The enterprising and excessive populations of miral areas migrate to concested provincial centers seeking work in factories. DESIGNAL IDENSIFICATION AND AITITUDES OF NOMEN TEXTLE WORKERS

GENERAL IDENTIFICATION AND ATTITUDES OF WOMEN TEXTILE WORKERS

a. A Statistical Entity

When we talk about Thai textile mills, we are talking about their location and the nationality of the workers. They are in fact an international institution : the capital and planning are often Chinese in traditional trade and Japanese in modern trade. The management is often Taiwanese (and some Japanese) and the market is in exports. It is disappointing to note that the standards of worker health, job-site conditions and terms of employment are below international level. It is very obviously seen here the double standard, meaning one standard in one country of mother company is not similarly applied to another country that the daughter company is transferred to. Usually it is lower in transnational corporations.

The three following pages are the result of the study to simplestly define and identify the characteristics of the women textile workers in Thailand. Please note that the complement of alternatives must add to one-hundred percent, that the predominant characteristic is first and the balance is in units comparable to the first proceeding until 100%. Of course not all information elicited from the workers is in so discrete a form, such as answering questions with multiple responses totalling more than 100%. In such a case, as with other comments, the information is given as an interpolation in the general structure. That general structure is "Chantana".

Please picture one young lady, she is Thai, works in a textile mill, and is a composite representative of all other female Thai textile mill workers. We will call her "Chantana" as that is a name associated with girl-weavers in common Thai parlance.

mer first and only wige-paying job at this mill. (Any of her

There is a constant over-hang of some one million rural workers win would absorb any opening in the industrial-manufacturing sector. This competition keeps the price of labour depressed.

Of particular interest is the use of women in manufacturing, While in their farming families, women are given near equal responsibilities and opportunities as the men, wave in the job market their value is drastically reduced. The largest employer of migrant waven is in textile manufacturing, with is traditional business practices, which includes subsistence wages. This follows a pattern where jobs identified as "domestic" such as food preparation, child cering, stwing, are reserved for women at employment is their classification as short-term. Women are expected, and by large show, a higher turnower and shorter career life than with a home if usemployed, to bring this picture into focus : women are accepted to marginal employment by manufactures in nanginal bring this picture in nanginal

GENERAL IDENTIFICATION AND AITITUDES OF WOMEN TEXTILE WORKERS

a. A Statistical Entity

When we talk about Thai textile mills, we are talking about their location and the nationality of the workers. They are in fact an international institution : the capital and planning are often Chinese in traditional trade and Japanese in modern trade. The management is often Taiwanese (and some Japanese) and the market is in exports. It is disappointing to note that the standards of worker health, job-site conditions and terms of employment are below international level. It is very obviously seen here the double standard meaning one standard in one country of mother company is not similarly issuing it is lower in transmational comportions.

The three following pages are the result of the study to simplestly define and identify the characteristics of the women textile workers in Ihaliand. Please note that the complement of alternatives must add to one-hundred percent, that the predominant characteristic is first and the balance is in units comparable to the first proceeding until 100%. Of course not all information elicited from the workers is in so discrete a form, such as answering questions with multiple responses totalling more than 100%. In such a case, as with other commants, the information is given as an interpolation in the general structure. That general structure is "Chartana".

Please picture one yoing lady, she is Thai, works in a textile mill, and is a composite representative of all other female. That textile mill workers. We will call her "Chantena" as that is a name associated with girl-veavers in common Thai parlance.

Chantana completed her compulsory four years of schooling, so she can read and write, but has difficulty with some newspaper articles and would never own a book. She enjoys reading and looking at the picture in movie fan magazines. Although she wants to eventually get married, so far she has not and does not feel being 26 - her current age - is too old yet to begin married life. She lives with seven or ten other girls in one room of the factory-provided dormitory, which makes it convenient to get to work, just a short walk. Free cooked rice is provided by the management and there is a factory canteen, but the girls perfer to cook their own food - which of course they purchase - in the dormitory or otherwise buy the cooked food sold in plastic bags from the food vendors nearby. This is to keep their own style of meals, from the north-east, rather than indulge in the central-Thai cooking offered by the factory. The room (even electricity and water!) are figured as part of her wage, which gives her a net income, including earnings from overtime, of about \$ 2,000 per month, something a bit around US\$ 75. (If Chantana were married, her combined income with that of her husband would double, but then the average family is with four persons, reducing the per capita income by half). Like the majority of workers, Chantana feels her income is poor compensation for the fatiguing hours of manual labour she puts in. that a right will work is of great benefit to the country, much

She came to work in town from her family rural farm so that she might supplement their terribly low income or no income at all. She got her first and only wage-paying job at this mill. (Any of her friends who have changed jobs have had waits of six months or longer, a big loss of income). Hardly any of her workmates are over 35, but some are as young as 15. They develop close feelings for each other, especially if they migrated from the same area. This close confinement has the risk of friction when the workers have disagreements as in the rivalry for a boyfriend.

-7-

The accomodation is strictly utilitarian, with over-crowdedness a serious problem. There is a lack of clean drinking water, water for utility purposes and sufficient toilets. Some dormitories (but not Chantana's) have their residents sleep in three shifts as to use the same bed space for three employees. There is little in the way of recreation facilities provided.

In a general survey of working conditions for all of the labour force of Thailand in every type of industry, it was reported that 44% of the workers do not have enough drinking water or water for other uses, that 50% had no clean drinking water.

The management does provide some form of nurse supervision for employees who become ill, dispense common medicine and refer cases to a visiting doctor if need be. In the event of a long-term illness or disability from accident, the woman's employment is frequently terminated, leaving her not only without income but also without food and lodging if she were a dormitory resident.

Chantana remembers her farm work with nostalgia. She misses the easy freedom, fresh environment and living with her family. She feels that agricultural work is of great benefit to the country, more so than producing consumer goods in textiles. She sees any hardships in her job situation as being impossible to change for the most part and she half-heartedly looks toward the union to give her some support. She would not think of looking for another job as that would require a loss of income during the waiting period for the new job and she has a fear that she might find herself in a job situation worse than the present one. So it is a case of, "Better the devil you know..." She hopes to save up enough money, or buy a house, so that she can quit mill work. Marriage is not an escape from work - many of her workmates are married - and she would want to continue to work when married. Her real desire is to be the owner of a small business, such as a

Chantana completed her compulsory four years of schooling, so she can read and write, but has difficulty with some newspaper articles and would never own a book. She enjoys reading and looking at the picture in movie fan magazines. Although and wants to eventually get married, so far she has not and does not feel being 26 - her current age - is too old yet to begin married life. She lives with seven or ten other girls in one room of the factory-provided dormitory, which makes it convenient to get to work, just a short walk. Free cooked rice is provided by the management and there is a factory canteen, but the girls perfer to cook their own food - which of course they purchase - in the domatory or otherwise buy the cooked food sold in plastic bags from the food vendors nearby. This is to keep their own style of meals, from the north-east, rather than indulgs in the central-That cooking offered by the factory. The room (even electricity and water!) are figured as part of her wage, which gives her a net income, including carnings from overtime, of about \$ 2,000 per month, something a bit around US\$ 75. (If Chantana were married, her combined income with that of her husband would double, but then the average family is with four persons, reducing the per capita income by half). Like the majority of workers, Chantana feals har income is poor compensation for the fatiguing hours of manual labour she puts in

She came to work in town from her family rural farm so that she might supplement their terribly low income or no income at all. She got her first and only wage-paying job at this mill. (Any of her friends who have changed jobs have had waits of six months or longer, a big loss of income). Hardly any of her workmates are over 35, but some are as young as 15. They develop close feelings for each other, has the risk of friction when the same area. This close confinement has the risk of friction when the workers have disogreements as in the rivalry for a boyfriend.

dress-making establishment or a little beauty parlour. After that in choice, she would not mind being a low-level government worker, such as a postal clerk. Chantana is realistic though, knowing how small her savings are now and her own fear of losing even a month's income in looking for a new job, so she can see herself working at this mill for an indefinite period, even until retirement - not a very happy thought for her. Retirement for her would mean loss of income and relying on the support of her hopefully generous children.

She works in the weaving department. Once given a job assignment no one is ever transfered to other slots. And factory owners make no provision to retain, develop or advance skilled workers, knowing there is a relatively unlimited pool of farm girls ever-willing to take the place of those who drop out from exhaustion and boredom. Her job entails standing and walking eight hours a day, six days a week, which she has done for the past three years (excluding holidays and times she went back to her family to help on the farm). She infrequently does overtime work, unlike her friends in inspection who do it all the time, but she welcomes the double pay it brings in. She works on a weekly rotating shift from mornings to afternoons, but living in the dormitory (and without a family) makes it nearly convenient. Her job requires moderate lifting. But not being able to sit bothers her the most. Supervisors think that girls that sit are lazy.

In the weaving department, Chantana thinks the noise is terrible and talking with friends is all but impossible. In measuring the noise level of all departments the average level was just under the legal level of 90 decibels (A) per eight hours of exposure. Worse than the noise is the dust, everyone reported it as nearly intolerable. The research group obtained readings of 3.8 to 7.17 mgs. per cubic meter of air when the legal level is below 1 mg. This situation gives rise to chronic lung problems in many workers. Chantana's department is not

The accomplation is strictly utilitarian, with over-crowdedness a serious problem. There is a lack of clean drinking water, water for utility purposes and sufficient toilets. Some domitories (but not Chantana's) have their residents sleep in three shifts as to use the same bed space for three employees. There is little in the way of recreation facilities provided.

In a general survey of working conditions for all of the labour force of Thailand in every type of industry, it was reported that 44% of the workers do not have enough drinking water or water for other uses, that 50% had no clean drinking water.

The management does provide some form of nurse supervision for employees who become ill, dispense common medicine and refer cases to a visiting doctor if need be. In the event of a long-term illness or disability from accident, the woman's employment is frequently terminated, leaving her not only without income but also without food and lodging if she were a domittory resident.

Chantana remembers her farm work with nostalgia. She misses the easy freedom, fresh environment and living with her family. She feels that agricultural work is of great benefit to the country, more so that producing consumer goods in textiles. She sees any hardships in her to althustion as being impossible to charge for the most part and she half-heartedly looks toward the union to give her some support. She would not think of looking for another job as that would require a loss of increasing the waiting period for the new job and she has a feat the most find herself in a job situation worse than the present on the some is a case of, "Better the devil you know...". She will work the tables and she an escape from work the next part are used to be a some in an escape from work when rarried. Her will work the table is not an escape from work when rarried. Her are used to be the would want to continue to work when rarried. Her are used to be the work of a small business, such as a and her the to be the owner of a small business, such as a dress-making establishment or a litrle beauty parlour. After that in choice, she would not mind being a low-level government worker, such as a postal clerk. Chantana is realistic though, knowing how small her savings are now and her own fear of losing even a muth's income in looking for a new job, so she can see herself working at this mill for an Indefinite pariod, even until retirement - not a very happy thought for her. Ketirement for her would mean loss of income and relying on the support of her hopefully generous children.

She works in the weaving department. Once given a job assignment no one is ever transferred to other slots. And factory owners make no provision to retain, develop or advance skilled workers, incoving there is a relatively unlimited pool of famm girls ever-willing. to take the place of those who drop out from exhaustion and boredom, her job entails standing and walking eight hours a day, six days a week, which she has done for the past three years (excluding holidays infrequently does overtime work, unlike her friends in inspection who do it all the time, but she welcomes the double pay it brings in. She works on a weekly rotating shift from mornings to effermons, but living in the dormitory (and without a family) meles it mearly convertent. Her the most. Supervisors think that girls that sit are lazy, the most. Supervisors think that girls that sit are lazy,

In the weaving department, Chartens thinks the noise is chartble and talking with friends is all but impossible. In measuring the noise level of all departments the average level was just under the legal level of 90 decibels (A) per eight hours of exposure. Worse than the noise is the dust, everyone reported it as nearly intolerable. The research group obtained readings of 2.0 to 7.17 mas, per cub, meter air when the legal level is being town intolerable. The chronic leng problems in many workers, Guartana's drawinger is not as hot as in dying, but she thinks that some summer afternoons are difficult to bear, especially as they are not provided drinking water on the job. The legal standard is below 38° celcius. The research team found dying at 42°, weaving (with over-heated Chantana), mixing and spinning at 39° celcius. Then again, during the few cool months, the job-site seems awfully cold some mornings. This shows a lack of regulating the work environment, it is exposed to the extremes of the outside temperature. Chantana thinks that who ever designed the factory did so only for the protection of the machines and materials and did not consider the people who looked after the operations. The research group sees a direct relationship between the hazardously high noise levels and "weavers deafness", where older workers have hearing problems and also the dense cotton dust and "brown lung", which looks like asthma and results in total disability, even after all mill work has stopped.

Because of the job pressures on her, Chantana does not feel especially well. She has adjusted to the long hours of standing and feels no fatigue after a nights rest, but she seldom sleeps soundly. She goes to bed by 10 every night she is not working (the afternoon shift is from 3 to 11). And she regularly gets eight hours of sleep. Because of family responsibilities, her married friends sleep less than she. She gets sick most often during the rainy season - from June to September.

Another study done by the same research team found nine common illness symptoms among textile workers : stomachache, diarrhea, pains in the joints, backache, sleepiness during work, depression, dissiness, vomiting and fatigue due to work. Each of these symptoms has a correlation to sex, age, work-site conditions, lodging and marital status. However the most pronounced variations are that women

suffered more than men and that married women suffered more than single. This clearly reflects conditions detrimental to the health of the Thai working women. As human beings, a valuable resource in industry, as well as home-makers, women should take better care of themselves than this and should be under better care by both the factory management and their national government.

-11-

Luckily Chantana has few problems with menstruation which cannot be said for many of her friends, who suffer a great deal once a month and have to take one or two days off.

Of the total number of workers questioned, 84% responded that they did not know about their legal sick-leave rights under the labour law. And those who thought they knew, actually were incorrect in their answer. Under the labour regulations, an employee can take three days of sick leave per year without medical certification and seven days with. This is not adequate for Chantana's workmates with their lunar lament.

There was equal confusion on the part of the workers when asked about the rights for maternity leave. The law allows one full month leave at regular pay and an additional thirty days of unpaid leave. Obviously this ignorance works to the benefit of the mill managers who can avoid their responsibilities in dealing with unsophisticated workers.

Chantana has also been lucky in having suffered only one accident, a minor one at that. She was able to bandage up her cut hand and continue work without requiring leave. The longer the time spent on the job the more sure an accident will happen, rising to 87% for those who had an age of 40. The most accidents happened in weaving, then dying and spinning. Less than 1% of all the accident reported were serious, but obviously the disabled and critically

as hot as in dying, but she thinks that some summer afternoons are difficult to bear, especially as they are not provided drinking water on the job. The legal standard is below 38 celcius. The research team found dying at 42, weaving (with over-heated Chantana), mixing and spinning at 39 celcius. Then again, during the few cool months, the job-site seems awfully cold some mornings. This shows a lack of regulating the work environment, it is exposed to the extremes of the outside temperature. Chantana thinks that who ever designed the factory did so only for the protection of the machines and materials and did not consider the people who looked after the operations. The high noise levels and 'weavers deafness', where older workers have beating problems and also the dense cotton dust and 'brown lung', which looks like astime and also the dense cotton dust and 'brown lung', all wilch looks like astime and results in total disability, even after all which looks like astime and results in total disability, even after all will work has stopped.

Because of the job pressures on her, Chantana does not feel especially well. She has adjusted to the long hours of standing and feels no fatigue after a nights rest, but she seldom sleeps soundly. She goes to bed by 10 every night she is not working (the afternoon shift is from 3 to 11). And she regularly gets eight hours of sleep. Because of family responsibilities, her married friends sleep less than she. She gets sick most often during the reimy season - from June to September.

Another study done by the same research team found nine common illness symptoms among textile workers : stomachache, diarrhea, pairs in the joints, backache, sleepiness during work, depression, dissinate, voliting and fatigue due to work. Each of these symptoms has a correlation to sex, age, work-site conditions, lodging and marital status. However the most processed warfactors are that worke

injured would not have shown up in this sample as it was only for currently employed workers. Shift work, overtime, insufficient sleep, physical and mental fatigue and many other obvious factors have a lot to do with the frequency of accidents and call for corrective measures.

an op one saturon sopes

Of course Chantana thinks about marriage a great deal. It is a necessity of life and bringing children into the world is as important as her finding a life-companion. As noted in the beginning of her biography, Chantana carefully placed herself in the "still quite marriageable" category of the under 30.

Chantana's married workmates have nearly all experienced pregnancy, after all this is a period of high fertility and an ideal time to begin a family. Of those who had been pregnant, 80% went fullterm. 20% suffered a miscarriage : 88% once, 7% twice and 5% three times. This is attributable directly to the excessive heat, vibration and lifting in textile mills. The national Thai averages for spontaneous abortions is 7% in cities and 3% in rural areas. This means that working in a textile mill accounts for a miscarriage rate <u>three times</u> the expected average. Textile mills not only produce cloth but stifle life in a mother's womb.

Most of those that are married have either one or two children that were born in a hospital. Unfortunately most of these children are raided on commercial milk products rather than the best nature can provide. Obviously this is to keep mother on the job and as a correlary, 50% of these children get day care out of the home. Most of them are still too young for school, the oldest generally reported as being eight.

Those that are married but not yet mothers, seem to want sons and daughters equally. They would appreciate a daughter to help with the house work and take care of them when they are too old to work

suffered more than men and that married some suffered none than single This clearly reflects conditions detrimental to the health of the Thai working women. As human beings, a valuable resource in industry, as well as home-makers, women should take better care of themselves than this and should be under better care by both the factory management and their national government.

Lucktly Charitans has few problems with menstruation which cannot be said for many of her friends, who suffer a great deal once a month and have to take one or two days off.

Of the total number of workers questioned, 84% responded that they did not know about their legal sick leave rights under the labour law. And those who thought they knew, actually were incorrect in their answer. Under the labour regulations, an employee can take three days of sick leave per year without redical certification and seven days with. This is that adequate for Chaptana's worksnetes with their lupar larent.

There was equal confusion on the part of the workers when asked about the rights for materity leave. The law allows one full month leave at regular pay and m additional thirty days of unpaid leave. Obvicusly this ignorance works to the benefit of the mill managers who can avoid their responsibilities in dealing with unsomhisticated workers.

Charters has also been judey in biving suffered only one accident, a minor one at that the vas able to bandage up her out hand and continue work without remining been. The longer the time spent on the job the nurse sure an accident will know or the intervence in 37% for those who had an age of 50. The nust accidents responsed in weaving, then dying and spinning, hase down is of all the accident reported were serious, but elviously the discoled and critically

(a dark hour if you have spent most of your life in a textile mill). But sons have their value too. The majority hope for a son in anticipation that he will enter the priesthood and assign the religious merit gained to his parents (<u>i.e.</u>, allow the parents to pull themselves up to heaven on the saffron robes of their son). Those that look for a daughter hope that she will become a nurse, a doctor or a teacher in that order. Teachers have high respect in the community. Having a daughter in the medical profession is not only economically pleasurable but so convenient to those who have experienced medical neglect all their lives. Those that look for a son overwhelmingly expect him to grow into a soldier or policeman. You can alternately think that either they are expressing a desire for (vicarious) power that is so lacking in their own lives, or that they are just being realistic and see these secure professions as readily obtainable for their not-tobe-well-educated sons.

injured would not have shown up in this sample as it was only for currently employed workers. Shift work, overtime, insufficient sleep, physical and mental fatigue and many other obvious factors have a lot to do with the frequency of accidents and call for corrective measures.

Of course Chantana thinks about marriage a great deal. It is a necessity of life and bringing children into the world is as important as her finding a life-companien. As noted in the beginning of her biography, Chantana carefully placed herself in the "still quite marriageable" category of the under 30.

Chantana's married workmates have nearly all experienced pregnancy, after all this is a period of high fertility and an ideal time to begin a family. Of those who had been pregnant, 80% want fullterm. 20% suffered a miscarriage : 88% once, 7% twice and 5% three times. This is attributable directly to the excessive heat, vibration and lifting in textile mills. The national Thai averages for spontaneous abortions is 7% in cities and 3% in rural areas. This means that working in a textile mill accounts for a miscarriage rate three times the expected average. Textile mills not only produce cloth but stifle life in a mother's want.

Most of those that are married have either one or two children that were born in a heapiral. Unfortunately most of these children are raided on connercial milk products rather than the best nature can provide. Obviously was is to keep mother on the job and as a correlary, 50% of these children get day care out of the home. Most of them are still too young for school, the oldest generally reported as being eight.

Those that are murried but not yet mothers, seen to want sone and daughters equally. They would appreciate a daughter to help with the house work and take care of them when they are too old to work

most desired job

(a dark hour if you have spent most of your life in a textile mill). But sons have their value too. The majority hope for a son in up to heaven on the saffron robes of their son). Those that look for a daughter hope that she will become a nurse, a doctor or a teacher in that order. Teachers have high respect in the commutty. Having a daughter in the medical profession is not only economically pleasurable but so convenient to those who have experienced medical neglect all their lives. Those that look for a son overwhelmingly expect him to * grow into a soldier or policeman. You can alternately think that either they are expressing a desire for (vicarious) power that is so see these secure professions as readily obtainable for their not-to-

* before 8:30 *+ 12 -> areas ary cover 30 *- never >	<pre>k miscarriage // or more // other // school // other // // other // // other // // other // // // // other // // // // // // // // // // // // //</pre>	* five * tran * five * * * other * y * other	k teacher other - mife works alone - 2,000 44, to 5,000 + sufficient. - other -
<pre>* 10 pm to midnight- * _ more than eight * _ 19 to 24 years old</pre>	two	ng	e hoctor spirning tinspection * less than sek day
	one child full term	of in school	<pre>soldier or policemen</pre>
	ncy m day care ou	bill no child no chil	vocation
bed time duration of sleep attitude toward marria hest are for marriage	pregnancy if married termination of pregnam number of children bor birth place infant feeding child care	education reason not in school age of child in school want daughters because want sons because	hoped for daughter's hoped for son's vocat domestic chores work department monthly family wage wage satisfaction work week work day

Ĩ.

10.40

THAL TEXTLE WOREN WORKERS POPULATION IDENTIFICATION

-15-

- 14

NOTIALFICKNER WORKERS SOPULATION UPANTIALITATIAN

aug TA	Meur Lu Cyreide Orljust Orljust Orljust	and the state of the state months of jees	Currer	ca by ceremental equal to the contract of the
ever process and brokens	brogroos coulmen. Socres	olq trist 70 to criticit are withingth age	<pre>% cc % cc % cc % cc % cc % cc % cc % cc</pre>	equencing of version of the source of the so

MALE STATES

FERCENT : 10

4

NOTILE WORKEN NORVENS POPULATION INSWILFICATION

-16-

and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your mon and buc your work and buc your mon and buc your mon and buc your mon and buc your work and buc your work and buc your mon and buc your mon and buc your your and buc your work and buc your mon and buc your work and buc your your and any out of hous work any out your work any out your your any out your and any out of hous work any out your work any out your any out your and any out of hour your any out your any out your any out your and any out of hour your any out your any out your any out your and any out of hour your any out your any out your any out your any out of hour your any out your any out your any out your any out of
--

work gay work gay work and the train work to the train the train work to the train the train

b. An Autobiography

You have already been introduced to Chantana, a statistical entity, now please meet Mrs. P, a real Thai textile worker, who was generous enough to share her articulate autobiography.

W Samar brought me to Bangkok to further my education. The Her higher level of education, brings her thoughts and desires into sharp focus. She is in the union and is not complacent with current work conditions. Her omissions (such as on her marriage) are tantalizing, but the reader will be satisfied in her lucid picturing of the family's background and the hardships endured over poor personnel relationships at the mill. She works as a shift forewoman in a textile mill in Bangkok, the capital city of Thailand.

ef as much for us. He was interested in our partice, an MY LIFE AND MY HOPE AS A WOMAN

My name is P. My birthdate is Thursday October 1, 1954. My father was N. My mother was Hg. I come from the north-east, which is a cursed land. Most of the land is on a high plain. The people live off their crops and rice but the yield is very low, because it depends on the rains, which are unreliable. When there is a drought the crops die. When there are floods the crops also die. The people are very poor and everyone struggles all of their lives. Any year the crops are good, they have a chance to make merit. When the storage bins are full, everyone is happy. But this seldom happens. From the lack of crops and general poverty, the people must eat anything available from the land : crickets, lizards, toads, even larvas of the dragon fly. These things are not appetizing but we eat them out of necessity. They are not known as food items in other parts of the country.

		191	1		3	11	11	11		111	1
	old	Dev.	Elo H		2	14	11	1.4 1.4 1.4 1.4		th H	- 1632
	4°	+	10 20	_	2010			1*			
					1925		TE TE			* *	
		ALL A				- age	étut	唐朝			
		12	1	- III				2 #			
		20					rsro W				
	513	S I C					abom	8		0.65	
			8			*	8000	144 144		e e	E C
		*	XIOLO		ž			ilia Mal Ana		H.a.p.	-
			2	-	ц ,		*	J. K.			
	10000										
				di sa					9	2	
				NE P		T.					an a
		54		1	13 A						
	-	90 A	0	-							
	14	1688	the later		- to				Loles .		
	01	lenge		r rear	8		- 386	ALTA ALTA			E115
		+ +	in the second	t.		\$ - } }	in t				(88-)
		1	2	AN .	chine	tur.	ue-	De		CL I	8
	970			pear	- Ecili		3			CURERI	300
	10			(ag)						E.	The
	CLINES		-								4
-										3	1
				1. 1							
		11.									1. 1

arise to further on education. And Lucas able to finish

An Autobiography

You have already been introduced to Chantana, a statistical entity, now please meet Mrs. F. a real Thai textile worker, who was generous enough to share her articulate autobiography.

-17-

Her higher level of education, brings her thoughts and desires into sharp focus. She is in the union and is not completent with current work conditions. Her omissions (such as an her marriage) are tantalizing, but the reader will be satisfied in her lucid picturing of the family's background and the hardships endured over poor personnel relationships at the mili. She works as a shift forewomentine textile mill in Bangkok, the capital city of Thailand.

MY LIFE AND MY HOPE AS A WOMAN

Wy name is P. Wy birthdate is "monthly October 1, 1954. by father was N. Wy mother was Hg. 1 come from the north-east, which is a cursed land. Most of the land is on a high plain. The people live off their crops and rice but the yield is very low, because it depends on the rains, which are unreliable. When there is a drought the crops die When there are floods the crops also die. The people are very pror and everyone struggles all of their lives. Any year the crops are good, they have a chance to make merit. When the storage bins are full, everyone is happy, But this seldent happens are thing available from the land or cross also der the larges of the dragen the land or cross and general povercy, the people must ext lie as of the dragen the land or cross and general povercy, the people must ext it as so it die dragen the land or cross as food items in other part of the country.

We are loyal to our King and Queen and posessive of our land. And we have good faith in our religion, not less than other Thais. Because of poverty, we are sympathetic to and help each other. We are proud of our kindness and honesty. When I was little, my parents let me go to a school near by; when I finished grade 4, my father brought me to Bangkok to further my education. The first time I saw it, it was powerfully exciting with all the modern buildings. I thought that everyone was rich because they all dressed so well. The vehicles crowded the road and the roads were strong. The people everywhere were cheerful. There were so many shop in which to buy things or get something to eat, which was totally different from my hometown. I lived in Bangkok with my brother for three years. He married later and my father, worried that I would be a burden to him, came and took me back to our hometown. At home about a year later, my father died of a heart attack. All of us children were very distressed. We felt that we had lost our shelter. He had always cared so much for us. He was interested in our getting an education. My mother had no income. I used funds from my father's life insurance to further my education. And I was able to finish grade 7. I felt that I was then grown up enough to earn an income and help my family. So I left school and looked for a job. I came to live again with my brother. My brother wanted me to continue school. But I had to be considerate of him, especially now that he had two children. I myself am the sixth child of eight.

I have been working at a textile factory off of Sukumvit Road in Bangkok. I was introduced to it by a cousin. I have been here since 1963. I receive a net wage of \$ 12 per day. At first I worked a day shift, but as I got more experience I worked overtime. After eight years of work I was promoted to shift-forewoman. This was about seven years ago. Now I have been married one year.

-19-

Speaking of working, I think it is a part of our lives.

Everyone must be sincere and diligent. I work in the finished product section. The work is measuring, stamping, wrapping and packing for delivery. I do all stages of work at the same time and also my control, so I can communicate and coordinate with all my workers. We change shift times once a week. Mornings are 7 to 3. Afternoons are 3 to 11. Both times get a 30 minute break for meals. After work, I use my time to do my laundry, or have conversation with co-workers or dormitory mates. The factory has arranged the roommates for efficiency. I have four roommates. We don't have a chance to choose our own roommates. I wish I did, that way I could stay with my relatives or friends. I have had many experiences now in living with people who came from backgrounds and families far different than mine. Away from their families they sometimes live so free as to get into difficulties. A female worker here committed suicide after a sexual affair with a policeman, when he took no responsibility for her. Those who are very mean can save their money and become a capitalist, by being a money lender and charging 20% interest per month. Those who can't save money but still want to get rich quick choose gambling, but often get arrested and then fined (this is both men and women). Some workers do well but others get very bored. And in the past the borus

the larger for the long-term workers, but: this year note

I am a middle-level worker as shift forewoman, which I find comfortable. My friends and subordinates have a whole range of characteristics ranking from good to not very good. Socially they are good. By nature women tend to become talkative even gossipy. For me personally everyone is acceptable because I am not intolerant. My subordinates that take responsibility are valuable because they make less mistakes, they accept advice and follow warnings. But some are irresponsible, inactive and get angry easily. I want to train them to get rid of their bad habits and get their cooperation.

a sub-biography was written in January, 1978.

We are loyal to our King and Queen and posessive of our land. And we have good faith in our religion, not less than other Thais: Because of poverty, we are sympathetic to and help each other. We are proud of our kindness and honesty. When I Little, my parents let me go to a school near by; when I finished first time I saw it, it was powerfully exciting with all the modern so well. The vehicles crowded the road and the roads were strong. The people everywhere were cheerful. There were so many shop in which from my hometown. I lived in Banekok with my brother for three years. He married later and my father, worried that I would be a burden to him, cane and took me back to our humetown. At home about a year later, my father died of a heart attack. All of us children were very distressed. We felt that we had lost our shelter. He had always cared so much for us. He was interested in our retting an education. My mother had no income. I used funds from my father's life insurance to further my education. And I was able to finish grade 7. I felt that I was then grown up enough to earn an income and help my family. So I Jeft school and looked for a job. I came school. But I had to be considerate of him, especially now that he had two children. I myself an the sixth child of eight.

I have been working at a textile factory off of Supunvin Road in Banekok, I was introduced to it by a cousin. I have been

But sometimes it cannot be done. I just think that it is my karma (fate). So I have to make my mind patient and have to forgive and forget. In this manner, I find my subordinates acceptable, and I can look for a further solution. I am pleased with my subordinates. But I cry alone about the situation with the superiors. I am not jealous or biased. I have two supervisors - a man and woman who are brother and sister. They have worked for the company a long time. And the owners promoted them to be supervisors. They are unbearable to us. The man is sly and does not treat either workers or owners fairly. He is demanding and unreasonable in getting his special work done at the expense of the regular work. He is terribly boastful even if he does only a little of the work. The other supervisors don't like him. At meetings he orders the workers like they were in the army. If anyone argues with him, he will lose his wage increase that year. Many good workers have been destroyed by him. His sister is very dominating and can never accept suggestions eventhough she is a careless and poor worker. She enjoys talking sharply to her subordinates. I think that the owners are fair and promote economic development in the country. They give us work and a place to live. When we are sick, we can pay hospital bills. I think we owe them a debt. But there is room for improvement. Every year but this one there has been a raise. And in the past the bonus payments were larger for the long-term workers, but this year some older workers got less than the newer ones. In this last Chinese New Years, old workers got \$ 80, and new workers got \$ 400. I would want a commitment from the owners that they will continue to employ workers until retirement age and that they would give medical care to the workers and their family. Also the provision of a residence and food for retired workers, so they won't be a burden on their children. Could the government also help? We hope that changes will come in our life time.

Note This autobiography was written in January, 1978.

Speaking of working, I think it is a part of our lives Everyone must be sincere and diligent. I work in the finished product section. The work is measuring, stamping, wrapping and packing for delivery. I do all stages of work at the same time and also my control, so I can communicate and coordinate with all my workers. We change shift times once a week, Montings are 7 to 3. Afternoons are 3 to 11. Both times get a 30 minute break for meals. After work, I use my time to do my laundry, or have conversation with co-workers or domitory mates. The factory has arranged the roommates for efficiency. I have four roommates. We don't have a chance to choose our own roomnates. I wish I did, that way I could stay with my relatives or friends. I have had many experiences now in living with people who came from backgrounds and families far different than mine. Away from their families they sometimes live so free as to get into difficulties. A female worker here committed suicide after a sexual affair with a policement. when he took no responsibility for her. Those who are very mean can save their money and become a capitalist, by being a money lender and charging 20% interest per month. Those who can't save money but still want to get rich quick choose gambling, but often get arrested and then fined (this is both men and women). Some workers do well but others get very bored.

I am a middle-level worker as shift forewoman, which I find confertable. Ay friends and subordinates have a whole range of characteristics ranking from good to not very good. Socially they are good. By nature women tend to become talkative even goossipy, For me personally everyone is acceptable because I am not intolerant. My subordinates that take responsibility are valuable because they make less mistakes. they accept advice and follow warnings. But some are irresponsible, inactive and get angry easily. I want to train them to get rid of their bad habits and get their cooperation.

DISCUSSION OF THE OVERALL VIEWS

Thai textile mills are of two categories : labour-intensive and capital-intensive. Those that are labour-intensive draw employees from rural-farming areas to work as unskilled or semi-skilled labourers on older and often poorly repaired machines. They are marginally profitable and suffer from the competition of those mills that are capital-intensive, that use more modern technology and have a higher level of machine operator with a higher production capacity per worker.

the boor there is have voiced their cooperation with the

Most of the milling is cotton, followed by silk and synthetics. There is no co-operative venture in production, so each plant has every other plant as a competitor. There is international competition also from Japan and Korea's large exports. All this leads to cutting profit margins to the least favourable to the mills. The capital-intensive plants work their machines longer and the labour-intensive plants work their women longer to increase production.

wit think about expansion of trade in foreign countries

Conclusion :

Textiles done in the small and medium-sized mill are a "sundown industry" : if current marketing practice continues, the business failure rate will continue to rise. This will force the remaining operations to merge in order to survive. And as the emphasis will be on survival, no thought of worker conditions will be taken.

and the over the standards. The upst inportant factor, in vertading

id to be under some form of governmental control - supervision

my karma (fate). So I have to make my mind patients and have to forgive and forget. In this namer, I find my subordinates acceptable. and I can look for a further solution. I am pleased with my who are brother and sister. They have worked for the company a long time. And the owners promoted them to be supervisors. They are unbearable to us. The man is siy and does not treat either workers or owners fairly. He is demanding and unreasonable in getting his special work done at the expense of the regular work. He is terribly boastful even if he does only a little of the work. The other they were in the army. If anyone argues with him, he will lose his wage increase that year. Many good workers have been destroyed by him. His sister is very dominating and can never accept suggestions eventhough she is a careless and poor worker. She enjoys talking sharply to her subordinates. I think that the owners are fair and promote economic development in the country. They give us work and a place to live. When we are sick, we can pay hospital bills. I think we and them a debt. But there is room for improvement. Every year but this one there has been a raise. And in the past the bonus Years, ald workers got 3 80, and new workers got 8 400. I would want a condition the owners that they will continue to employ workers until retirement age and that they would give medical care to the

Note This autoblography was written in January, 1978.

a. The Factory Owners

Factory owners have voiced their cooperation with the government in its support of small and medium-sized mills to boost employment. But they feel under pressure from business factors outside their immediate control. The two most appearant are : uncertainty of the export market and quality competition.

The presently produced textile products depend on foreign markets rather than local markets, with the requirement that the government must think about expansion of trade in foreign countries. Since 1973, Thai textile products have been met with tariff charges and suffered under heavy exchange losses. There is heavy competition with the neighbouring producers such as Hong Kong, Singapore and Korea, who have more expertise in marketing and also get government protectionism.

One solution for the support of the textile industry is for the factory owners to keep on joining together as an association to set common goals for production to meet exports and domestic needs by defining a quota of production among themselves. Such as association should have close government co-operation in the public interest, also to provide mutual guide-lines, marketing data, supervision of production and readily available controls. Rice, sugar and coffee industries enjoy such support currently.

The quality of production of the above mentioned association would need to be under some form of governmental control, supervision maintained over the standards. The most important factor in upgrading the sales of Thai textile products in the international market despite the competition is the raising of the quality of handiwork.

DISCUSSION OF THE OVERALL VIEWS

That textile mills are of two categories : kabour-intensive and capital-intensive. Those that are labour-intensive draw employees from rural-farming areas to work as unskilled or semi-skilled labourers on older and often poorly repaired machines. They are marginally profitable and suffer from the competition of those mills that are capital-intensive, that use more modern technology and have a higher level of machine operator with a higher production capacity per worker.

Most of the milling is cotton, followed by silk and synthetics. There is no co-operative venture in production, so each plant has every other plant as a competitor. There is international competition also from Japan and Korea's large exports. All this leads to cutting profit margins to the least favourable to the mills. The capital-intensive plants work their machines longer and the labour-intensive plants work their women longer to increase production.

Concluston :

Textiles done in the small and medium-sized mill are a "sundown industry" : if current marketing practice continues, the business failure rate will continue to rise. This will force the remaining operations to merge in order to survive. And as the emphasis will be on survival, no thought of worker conditions will be taken.

b. Textile management background

The ethnic background for the overwhelming majority of textile mill owners is Chinese. The Chinese form a top-echelon of bankers, physicians and business owners. They have all had a relatively new immigrant status (second generation or so) and by sheer force of personal ambition made a success of themselves against great odds: lack of formal education, no initial economic base, isolation from family.

Through exertion of great diligence, these people were able to over-employ themselves, getting income beyond their immediate needs. Through force of will they were able to reduce expenses to a minimum and save capital for future investment. When they began a family business, they drove themselves tirelessly to get the highest production without regard for any comforts. Working conditions were meaningless to them, as was break-time, nutrition and leisure. Their children were incorporated into the enterprise, working as helpers, assistants and being absorbed into the management level when their commercial education was completed. University education was avoided due to its creating a gap between parents and children. The children are bond tightly to the parents in the family owned - but parent controlled business.

In general, the women do not feel oppressed, disadvantaged or

Unlike in Malaysia and Indon sia, where Chinese are legislated against to restrict their expansion of financial power, Thailand lays no restrictions against ethnic groups. In Thailand, by the third generation, Chinese are virtually assimilated into Thai culture and are no longer distinguishable. So Chinese are admired and respected even though their manners seem abrasive and the business techniques lack charity.

ties : their parents, husband or current boy-friend.

· a. The Factory Owners

Factory exners have voiced their concration with the government in its support of small and medium-sized mills to boost employment. But they feel under pressure from business factors outside their imediate control. The two most appearant are : uncertainty of the export market and quality competition.

The presently produced textile products depend on foreign . government must think about expansion of trade in foreign countries. Since 1973, That textile products have been met with tariff charges and suffered under heavy exchange losses. There is heavy competition with the neighbouring producers such as Hong Kung, Singapore and Korea who have more expertise in marketing and also get government protectionism.

One solution for the support of the textile industry is for the factory orners to keep on joining together as an association to set common goals for production to meet exports and domestic needs by defining a quota of production array thenselves. Such as association should have close government co-operation in the public interest, also to provide mutual guide-lines, mericative data, supervision of production and readily available controls. Rice shear and coffee industries enjoy such support currently.

The quality of production of the above mentioned association would need to be under some form of governmental control, supervision maintained over the standards. The most important factors in upgrading

-23-

The ethnic background for the overwhelming majority of textile mill owners is Chinese. The Uninese form a top-echelon of bankers, physicians and business owners. They have all had a relatively new immigrant status (second generation or so) and by sheer force of personal ambition made a success of themselves against great odds: lack of formal education, no initial economic base, isolation from family.

Through exertion of great diligence, these people were able to over-employ themealves, getting income beyond their immediate needs, Through force of will they were able to reduce expenses to a minimum and save capital for future investment. When they began a family business, they drove themselves tirelessly to get the highest production without regard for any conforts. Working conditions were meaningless to them, as was break-time, nutrition and leisure. Their children were incorporated into the enterprise, working as helpers, assistants and being absorbed into the management level when their connercial education was completed. University education was avoided due to its creating a gap between parents and children. The children are bond tightly to the parents in the family owned - but parent controlled -

Unlike in Malaysia and Indon sia, where Chinese are legislated against to restrict their expansion of financial power. Inailand lays no restrictions against ethnic groups. In Thailand, by the third generation, Chinese are virtually assimilated That culture and are no longer distinguishable. So Chinese are

Conclusion : round how their busband drinks or paralles too

are of secondary importance to productivity. Education is not and advance their security, that shows a lack of self-control.

c. <u>Textile workers mentality</u>

What could not be measured on any questionnaire and was latent in the biographical material offered by the women is their mentality: what they are interested in, how they feel about their lives and future. such information is highly subjective, likely to be misintrepreted and not subject to either validity or reliability measurement, but is most important in determining the ability of women in textiles to improve their own living and working conditions. The following personal insights came from women labour representatives and others who have lived in close association with women textile workers.

In general the women do not feel oppressed, disadvantaged or exploited by their jobs. They have a desire to keep on with their current employment, do not want to change employers out of fear that their next would be worse than this one. They are interested most in the wage received, far more than any long-term benefits or existing work conditions. If there was a choice between improvements, they would wish to neglect all conditions and only increase wages. Many perfer night work and overtime to boost their pay. As for interests beyond work, they are rather narrow. The women seem totally envolved in family ties : their parents, husband or current boy-friend. Their

-24-

The owner-managers of textile mills see life as a problem in personal achievement, whereby hard work, over long hours with thrift will result in economic security. Life and work conditions necessary for productivity. And if an employee is not able to save

ly - centered, - They would not be

tiese wasn are not only inarthculate in meressing life-

conversation revolves around how their husband drinks or gambles too much. They retain strong loyalty to their parents and offer support of labour in their fields and money for fertilizer or other reasons upon request. They see their lives as a short-term situation, living only weeks at a time and not considering overall plans or goals.

-25-

Conclusion : USE Sublements what a bother the somen are, with

These women are not only inarticulate in expressing lifeviews, but are essentially without a life-view. Goals are short-term and interests mostly self - or family - centered. They would not be willing to participate in a self-help program as they do not see themselves as disadvantaged, only needing more money - which they would most likely spend on their families. They reflect a 'poor class' mentality, of those who have experienced life as only a series of hand-to-mouth operations.

d. Textile management and labour relations

Hiring practices in the labour-intensive mills seem to be for seeking the least sophisticated workers : young farm girls. And they are given as little training as necessary to perform their job. There is no orientation to their general responsibilities for labour performance, safety, rights (such as sick and maternity leave). Also many of the women workers are hired and kept at a "temporary worker" status, paid a daily-rate and not covered under any rules for fair labour compensation in case of accident or injury.

They are given accomodations that are often substandard, disregarding comfort and even health.

Goneluston

The owner-managers of textile mills see life as a problem in personal achievement, whereby hard work, over long hours with thrift will result in accornate security. Life and work conditions are of secondary importance to productivity. Education is not necessary for productivity. And if an employee is not able to save and advance their security, that shows a lack of self-control.

Textile workers menuality

What could not be measured on any questionnaire and was latent in the biographical material offered by the women is their mentality: what they are interested in, how they feel about their lives and future, such information is highly subjective, likely to be misintrepreted and not subject to either validity or reliability measurement, but is most important in determining the ability of the following personal insights came from women labour representatives and others who have lived in close association with women textile workers.

In general the women do not feel oppressed, disadvantaged or exploited by their tobs. They have a desire colkeep, on with their current employment, do not want to charge exployers but of fear that their next would be worse than this one. They are interested most up the wage redeived, for ourse that any long-term benefits or existing would wish to neglect all cubic or end of increase equal. Hary purfer right work and orertine to boost their red of increase equal. Hary beyond work, they is a rather narrow. The worm seem totally ervelved in family ties : their parents, husband or current boy-friend. Their in family ties : their parents, husband or current boy-friend. conversation revolves around how their husband drinks or vambles too only weeks at a time and not considering overall plans or goals.

Rese woren are not only inarticulate in expressing lifeviews, but are essentially without a life-view. Grais are short-term and interests mostly self - or family - centered. They would not be willing to participate in a self-help program as they do not see themselves as disadvantaged, only needing more acrey - which they would most likely spend on their families. They reflect a 'poor class' mentality, of those who have experienced life as only a

d. Textile management and Labour relations

Hiring practices in the labour-intensive mills seen to be for seeking the least sophisticated workers : young faim girls. they are given as little training is necessary to perform their There is no orientation to their general responsibilities for labour many of the woman workers are hired and kept at a "temporary worker" status, paid a daily rate and not covered under any rules for fair

From the outset and throughout their factory work life, the management will look upon the women workers as irresponsible children. to be cared for - within reason - to be variously ignored or indulged in their requests, but having no real contribution to the family business. he business people do all in their mains to cripple

Management often expresses what a bother the women are, with all their personal problems and lack of responsibility. This benevolent paternalism insures the subservience of female workers to an ownermanager who has an education level not especially higher than their own. It keeps his responsibility limited, as a father is not obligated to his children. When any financial problems arise in the women's lives, he can show a magnanimous nature by allowing them to indebt themselves to him for months of work in advance. No doubt that there is some altruism, but in balance the freedom lost seems to have been sold cheaply.

> inion's biggest problem is huge unemployment, with new the labour maricer faster than they can be absorbed by new Conclusion : some 0.5 million persons a year - and the closure

of class - some 30 this year, especially in the small, and The paternalism of a mill operator insulates him from providing equitable wages and good living conditions to female workers, it keeps the women docile and disorganized. The sons of the owners, having a different background than their fathers, will carry a different attitude toward labour relations, but still are under the control of their parents.

> wother factor discouraging women's paticipation in the to use their organizing skills placaing and de thous forrefore when women are introduced into a mane soon the supporters of men - reinforce this.

e. Unions and women workers

Thai unions are under a severe handicap by the general public image of political activism bordering on insurrection. Reactionary forces, including the government sector, do much to supress union enrollment. The business people do all in their means to cripple union growth and power. Union representatives are routinely frozen in their job position by hostile employers, singled out for harsh work schedules, dismissed on unreasonable or false grounds, even killed by 'person or persons unknown.''

Thai political structure rests on "influential people", who have enormous personal discretion in complying with laws. They are insulated by money and political debts owed them by local and higher governmental officers. This very class of people include mill owners that are antagonistic to the unions.

The union's biggest problem is huge unemployment, with new men entering the labour marker faster than they can be absorbed by new industrial expension - some 0.5 million persons a year - and the closure of old factories - some 30 this year, especially in the small and medium sized textile mills - that dumps blocks of 1,000s of workers into the pool of the unemployed, currently 1.2 million. Men, and jobs for men are the bread and butter of unions. Problems of child care, housework, nutrition, menstruation leave are not on the agenda of problems to be tackled by the union.

Another factor discouraging women's paticipation in unions is that women as a class have a lower education level, have had less opportunity to use their organizing skills, planning and developing projects, therefore when women are introduced into a mixed group, they tend to quietly sink to the bottom, leaving the men to push forward and carry out the activities. Thai cultural habits - with women as the supporters of men - reinforce this.

From the outset and throughout their factory work life, the management will look upon the woman workers as irresponsible children, to be cared for - within reason - to be variously ignored or indulged in their requests, but having no real contribution to the family business

Maragement often expresses what a bother the women are, with all their personal problems and lack of responsibility. This benevolent paternalism insures the subservience of famile workers to an connermanager who has an education level not especially higher than their own. It keeps his responsibility limited, as a father is not obligated to his children. When any financial problems arise in the women's lives, he can show a magnanimous nature by allowing them to indebt themselves to him for months of work in advance. No doubt that there is some altruism, but in balance the freedom lost seems to have been sold cheaply.

Convelusion :

The paternalism of a mill operator insulates him from providing equitable wages and good living conditions to female workers, it keeps the women docile and disorganized. The sons of the owners, having a different background then their fathers, will carry a different attitude control about relations, but still are under the control of their parents. 5

-27-

That unions are under a severe handicap by the general public forces, including the government sector, do much to supress enrollment. The business people do all in their means to cripple union growth and power. Union representatives are routinely frozen work schedules, dismissed on unreasonable or false grounds, even.

That political structure rests on "influencial people", who have enormous personal discretion in complying with laws. They are insulated by money and political debts owed them by local and higher governmental officers. This very class of people include mill owners that are antaconistic to the unions.

The union's biggest problem is huge memployment, with new industrial expension - some 0.5 million persons a year - and the closure of old factories - some 30 this year, especially in the small and medium sized textile mills - that dumps blocks of 1,000s of workers into men are the bread and butter of unions. Froblems of child care, housework, nutrition, mensuruation leave are not on the agenda of problems to be tackled by the union.

is that women as a class have a lower education level, have had less forward and carry out the accivities. That cultural habits - with women as the supporters of man - reinforce this.

Conclusion :

Due to political antagonism against unions, the bias of unions to center on male-worker problems and the seeming lack of qualified female-unionists, women are under-represented by Thai unions, have no executive authority and no voice in expressing their problems as a class. Would this be true outside of Thailand? Yes.

f. Women's organizations in Thailand

Thailand has several women's groups who are committed to social justice and work to improve the lives of women. However these groups' activities are restricted to local and current issues, with no long-term programs. Also there is no coordination among themselves or with other sectors, giving a hit-and-miss cast to their contributions. These groups tend to be loosely associated around a dominant personality and have no real infrastructure to support projects of any duration. But they can be most effective in giving quick one-shot programs, such halland with the expectation that this type of as in fund raising. provide ready employment for large blocks of people

Although women's groups are most interested to assist in raising the standards of women's lives, they can do little beyond provide funding to a worker-group to enact short-term projects. reater investment toward machines

a copleyment opportunity, therefore the govern Remarks Mrs. P and many other workers have wondered aloud why the government could not intervene. It cannot do so under current circumstances as will be identified in the next section. But it has

The the purpose of the present National Plan of The 199

o its citizens including all the women textile

Conclusion

Due to political antagonian against unions, the bias of unions to center on male-worker problems and the seeming lack of qualified female-unionists women are under represented by Thai unions, have no executive authority and no voice in **expressing** their problems as a class Would this be true outside of Thailand? Yee

f. Woren's organizations in Thalland

Thailand has several women's groups who are committed to social justice and work to improve the lives of women. However these groups' activities are restricted to local and current issues, with no long-term programs. Also there is no coordination among themselves or with other sectors, giving a hit-and-miss cast to their contributions These groups tend to be loosely associated around a dominant personality and have no real infrastructure to support projects of any duration. But they can be most effective in giving quick one-shot programs, such as in fund raising.

Although women's groups are most interested to assist in raising the standards of waven's lives, they can do little beyond provide funding to a worker-group to enact short-term projects.

Remarks Mrs. P and many other workers fore wondered mich why dee gow remark could con interveno. It cannot is so under correct circumscurges as will be identified in the next section. Dut it has great responsibility to its citizens including all the women textile workers in giving adequate life conditions.

of for the medium sized the emphasis should be on the

Let us fill-in the reasons for that responsibility and briefly offer where remedial actions could be taken to the benefit of the community of women textile workers.

and different wages for different kinds of work.

g. The Government

Many research projects have referred to the pattern that textile mills are important places for employment of the labour force that is flowing from the agricultural sector. Government should arrange that small mills must register under law in order to enforce legislated standards of labour administration in all aspects, such as wages, welfare and safety, as well as supervision of the work-site.

It would be an error to support the setting up of large modernized mills in Thailand with the expectation that this type of facility will provide ready employment for large blocks of people and give them additional skills. In Thailand, the emphasis of any industry either on capital-intensive or labour-intensive depends not on the type but rather on the size of the factory. The bigger the factory the greater investment toward machines.

Since the purpose of the present National Plan of Thailand is to generate employment opportunity, therefore the government should encourage and support small factories rather than large factories. But the workers in small factories tend to have more problems and ask for less work with machines. great responsibility to its citizens including all the women textile workers in giving adequate life conditions.

Let us fill-in the reasons for that responsibility and briefly offer where reawdial actions could be taken to the benefit of the community of women textile workers.

Many research projects have referred to the partern that textile mills are important places for employment of the labour force that is flowing from the agricultural sector. Government should arrange that small utils must register under law in order to enforce legislated standards of labour administration in all aspects, such as wages, welfare and safety, as well as supervision of the work-sife.

It would be an error to support the setting up of large nodernized mills in Thaliand with the expectation that this type of facility will provide ready employment for large blocks of people and give them additional skills. In Thailand, the emphasis of any industry either on capital-intensive or labour-intensive depends not on the type but rather on the size of the factory. The bigger the factory the greater investment to and rachines.

Since the purpose of the present National Fign of Thailand is to generate employment opportunity, therefore the government should enclurage and support small factories rather than long factories. But the workers in small nutorics that to have more problems and ask for less work with machines. There should be a distinction made by the government as to the requirements between the small and the medium sized factories. For the small factories, the emphasis should be on artfulness and quality of the craft, and for the medium sized the emphasis should be on the industrial usage of the production and the quantity demanded by the market. Such a differentiation of emphasis will be useful in determining the qualifications of the labour needed, the training and the adjusting of different wages for different kinds of work.

Work Organization

Along with the re-grouping of the sectors in the textile industry to increase export and domestic use through governmental support of production in small and medium sized mills, there are areas for improvement to effect conditions of the employees directly: shift work, overtime work, rotation in different departments, work machines.

Shift Work

There is a good body of literature which shows that shift work adds too much stress to the working conditions and is therefore detrimental to the health. Shift work should be phased out and replaced by a regular straight schedule.

ielfare services help mich in beosting the well-

a well as decreasing the call for pay increases.

of housing and utilities, such as drinking water

Overtime Work

Although overtime is popular with the workers as supplemental income, it has been shown that it is detrimental to health in the long term and of course it is a way of avoiding hiring additional personnel. Overtime should have proper limits. And wages and welfare services should be increased to compensate for loss of overtime income.

Rotation in Different Departments

Initiative and job attractiveness over the long term are slowly destroyed by doing monotonous work. Thus the workers' recommendation that departmental rotation be scheduled, should be given consideration. This is especially important with a labour force having a higher education.

Work with Machines

The time working with machines should be reduced. This could easily be done in the medium and small-sized factories, for it will partly help in reducing capital investment. It also helps worker morale in fulfilling their desire to avoid machine-regulated tasks. But of course it should not lessen quality standards of production.

Welfare Services

Improved welfare services help much in boosting the wellbeing of the workers as well as decreasing the call for pay increases. Data collected show that welfare services should be instituted/ improved in the following areas : housing, education.

Housing

The level of housing and utilities, such as drinking water and water for other uses, also toilet facilities is dismal. Improvement in these facilities can be done with a relatively low cost in relation to the benefits and done in a short period of time. This will surely bring a more efficient work force where ever the factory provides housing.

the requirements between the small and the medium sized factories. For of the craft, and fur the medium sized the emphasis should be on the

Work Organization

Along with the re-grouping of the sectors in the textile industry to increase export and donestic use through governmental support of preluction in small and medium sized wills, there are areas for improvement to effect conditions of the employees directly:

Shift Work

There is a good body of literature which shows that shift

should be increased to compensate for loss of overtime income.

the sind as faming methods becase more

en end unbridgeble gap between employees and The ta the only way for the women workers to

Air legal richts and to avoid becoming the

the only managers who have previously taken advantage the solution presents itself in the

The will cause factory owners and managors

Education

Until the 20th Century, education was for only two classes of Thai society : royalty and priests. Monastery schools still offer educational opportunities. But with the modern era the need for educated men (and women) to staff the growing governmental bureaucracy. Since 1950, when farming communities saw the first real governmental commitment to rural education, and as farming methods became more technologically oriented, education was more important in the lives of upcountry people.

decivel activities beyond the scope of coupery

By 1960 only 4 million children were in school, in the 1980s fully 8 million are enrolled. Adult literacy is 85%. 90% of the children aged seven to ten attend school.

The level of the workers' basic education creates differences between themselves and makes and unbridgable gap between employees and the management. Education is the only way for the women workers to have an understanding of their legal rights and to avoid becomming the victims of those who may ill-use their labour for their own benefit. It is a way to open new job opportunities and for self-development in their current mill.

As for factory managers who have previously taken advantage of poorly educated employees, the solution presents itself in the problem: higher education. This will cause factory owners and managers to provide increasing social benefits to their employees. It will result in managers and employees being able to bargain more reasonably. This will help block political intervention, which only use labour unions as a pretext. Factory owners an managers fear more from strikes than paying higher wages, because the strikes are always (in Thailand)

Retation in Different Departments

Initiative and job attractiveness over the long term are slowly destroyed by doing monotonous work. Thus the workers' recommidation that departmental rotation be scheduled should be given consideration. This is especially important with a labour force having a higher education.

Work with Machines

The time working with machines should be reduced. This could easily be dene in the medium and small-sized factories, for it will partly help in reducing capital investment. It also helps worker morels in fulfilling their desire to avoid machine-regulated tasks, But of course it should not lessen quality standards of production.

Welfare Services

Improved welfare services help much in boosting the wellbeing of the workers as well as decreasing the call for pay increases. Data collected show that welfare services should be instituted/ improved in the following areas : housing, education.

Housing

The level of housing and utilities, such as drinking water and water for other uses, also collet facilities is dismal. Improvement in these facilities can be done with a relatively low cost in relation to the benefits and done in a chort relial of time. This will surely bring a more ellicient work force where ever the factory provides housing.

interlocked with political motivations beyond the scope of company action, whereas wage demands can be negotiated successfully. Education will ease labour negotiations just as well as introducing more machinery.

-33-

Heavy responsibility falls on the state to assume a realistic attitude toward education of those who will in all likelihood join in factory work, those who need an education in accord with their job needs. Also the Thai government should follow the Japanese in providing continuation school for low-level citizens to improve their working status. This should be done through both formal and non-formal education. The state has the responsibility to provide non-formal education to those who have completed the required courses in formal education. This would also provide the textile workers to judge their own handicraft and skills against those of recognized occupational standards.

The government could well stimulate the large mills to open training centers or provide courses for the benefit of raising the skills of the employees. These centers should also give formal education to the children of the workers in that industry. It is also possible in the industrially-dense areas, that several factories could use the same learning center, which would be set up under regular government authority or jointly with non-profit organizations, societies or foundations. With proper planning educational courses would be geared to channel the young people of the community into learning various aspects of textile manufacture. This would lessen the training costs of factories and can be regarded as welfare service generally while increasing the efficiency of new workers in particular. Research is needed to set up guidelines to maximize benefits to all concerned without disrupting the current beneficial programs.

that fail into it ash particul as supply is any buttarily that far a

yow they can yet that control for thedselves

Education

Until the 20th Century, education was for only two classes of Thai society : royalty and priests. Monastery schools still offer educational opportunities. But with the modern era the need for educated men (and wamen) to staff the growing governmental bureaucracy. Since 1950, when faunding communities saw the first real governmental commitment to rural education, and as faunding methods became more technologically oriented, education was more important in the lives of upcountry people.

By 1960 only 4 million children were in school, in the 1980s fully 8 million are encolled. Adult literacy is 85%. 90% of the children aged seven to ten attend school.

The level of the workers' basic education creates differences between themselves and makes and unbridgable gap between employees and the management. Education is the only way for the women workers to have an understanding of their legal rights and to avoid becoming the victims of those who may ill-use their labour for their own benefit. It is a way to open new job opportunities and for self-development in their current mill.

As for factory managers who have previously taken advantage of poorly educated employees, the solution presents itself in the problem: higher education. This will cause factory owners and managers to provide increasing social benefits to their employees. It will result in managers and employees being able to bargain more reasonably. This will help block political intervention, which only use labour unions as a pretext. Factory owners an managers fear more from strikes then paying higher waves, because the strikes are always (in Thailand)

h. <u>Transferability of work-living conditions in textile mills</u> to other industries

Due to the confines of the initial study project, only women in the textile mills of a general class (labour-intensive) were sampled. But there is no reason to suspect that their life conditions are especially different than other female workers in industrial settings throughout Thailand. The job conditions, standard of nutrition, health care, general welfare, are nearly similar in all industrial areas where women are employed. This is related closely to the fact that more than 95% of the employees come from ruralfarming families, who have common economic and education opportunities. Their future is also similar because there is a ceiling to their advancement. For the majority there is no step up beyond their current job. They can quit. They cannot move up.

The situation is non-transferable to the men workers who 1) have a richer educational background, 2) are culturally prepared to strive and achieve, 3) have women help them in home caretaking and provide money for further education and selfpromotion.

coployers, who are directly responsibles for apployeds and Conclusion : their productivity

Women workers in labour-intensive industries form a distinct class that has highly select problems and living conditions which are not known, understood or interesting to labour, employers or other organizations that have a view on more general fields of labour, business and economics.

<u>Remarks</u> And so the pattern is set, the web is spun. And the women that fall into it are caught as surely as any butterfly that fed a spider.

We next need to know who controls their lives and how they can get that control for themselves.

interlocked with political mutivations beyond the scope of company action, whereas wage demands can be negotiated successfully. Education will ease labour negotiations just as well as introducing more machinery.

Heavy responsibility falls on the state to assume a realistic attitude toward education of those who will in all likelihood join in factory work, those who need an education in accord with their job needs. Also the Thai government should follow the Japanese in providing continuation school for low-level citizens to improve their working status. This should be done through both formal and non-formal education. The state has the responsibility to provide non-formal education. This would also provide the required courses in formal own handicraft and skills against those of recognized occupational standards.

The government could well stimulate the large mills to open training centers or provide courses for the benefit of raising the skills of the employees. These centers should also give formal education to the children of the workers in that industry. It is also possible in the industrially-dense areas, that several factories could use the same learning center, which would be set up under regular government authority or jointly with non-profit organizations, societies or foundations. With proper planning educational courses would be yarious aspects of textile manufacture. This would lessen the training costs of factories and can be regarded as welfare service generally while increasing the efficiency of new workers in particular. Research is welfed to set up guidelines to maximize benefits to all.

RECOMMENDATIONS ON IN-PUT CONDUITS

the situation unique to Thalland and with the general incrovement Apparently, the women who work in textiles suffer a handicap in managing their own affairs and cannot conjoin to form an effective force to further their living and working conditions. If these circumstances are to be changed in a way to relieve the most oppresive features, they will have to be under some direction from outside, the women will need an in-put. poor (with emphasis on the low weak sever) **Caneta**lis

this is birth incapable of action and incorpetent to perform. This

In looking for an organization outside the women themselves, we must note two requirements : interest in their problem and authority to change them. Let us review the possible its in rural committee the basic (if they alased it as groups : ren) or advanced education, increasing their inderstanding in

government, through education, and have an interance a basis from mechanic overview of labour, handleraft, factition, media, to raise awareness of the participants involved in women labour, the second second in the citizens who are nore self-sufficient, and second unions, which try to represent all the workers, during But in the real world, it seems employers, who are directly responsible for employees and their productivity. Indias to see higher

Government

at . The

Of all the above resource groups, the government is the weakest in both interest and authority. Governments are a compromise among vast and conflicting segments of a total society. Governmental bodies tend to move glacially if at all and are far more interested in keeping a steady status quo than in changing factors that could cause additional problems. The need to avoid problems rather than

H. Transferability of work-living conditions in rextile mills to other industries

Due to the confines of the initial study project, only comman in the textile mills of a general class (labour-intensive) are sampled. But there is no reason to suspect that their life conditions are especially different than other female workers in industrial settings throughout Thailand. The job conditions, standard of mutrition, health care, general welfare, are nearly similar in all industrial areas where women are employed. This is related closely to the fact that more than 95% of the employees come from ruralfainting families, who have common economic and education opportunities Their future is also similar because there is a ceiling to their edvancement. For the majority there is no step up beyond their current tob. They can quit. They cannot move up.

The situation is non-transferable to the men workers who

1) have a richer edicational background, 2) are culturally prepared to strive and achieve, 3) have women help them in home caretaking and provide money for further education and self-.

Concluston :

Women workers in labour-intensive industries form a distinct class that has highly select problems and living conditions which are not known, understood or interesting to labour, employers or other organizations that have a view on more general fields of labour, business and economics.

that fall into it are caught as surely as any butterfly that fad a

We next need to know who controls their lives and how they can get that control for themselves.

RECOMMENTATIONS ON IN-PUT CONDULTS

Apparently, the women who work in textiles suffer a indicap in managing their twn affairs and cannot conjoin to form a effective force to further their living and working conditions. If these circumstances are to be changed in a way to relieve the most oppresive features, they will have to be under some direction from outside, the women will need an in-put.

In looking for an organization outside the women chanselves, we must note two requirements : interest in their problem and authority to change them. Let us review the possible groups :

government, through education, overview of labour, media, to raise awareness of the participants involved in women labour,

unions, which try to represent all the workers, employers, who are directly responsible for employees and their productivity.

Justimetric

Of all the above resource groups, the government is the weakest in both interest and authority. Covernments are a compromise among vart and conflicting segments of a total society. Covernmental bodies tend to nove glacially if at all and are far more interested in keeping a steady status que than in changing factors that could cause additional problems. The need to avoid problems rather than

tackle them has layered governmental organizations with personnel that are both incapable of action and incompetent to perform. This is not a situation unique to Thailand and with the general improvement in education levels and a more progressive personnel, undoubtedly the bureaucracy will lurch forward more often than before.

plaining or lags burger is to have femile exployees recogline their

-36-

Logol risk <u>Education</u> we explore the study claim by showed that the study claim by showed that

The poor (with emphasis on the low wage level) teachers have enough to do just to get all the school-age children through an education where they can read, write and do some mathematics. It would be so nice if they could set up a continuation school system, giving adults in rural communities the basic (if they missed it as children) or advanced education, increasing their understanding in subjects as : crop rotation, financing and agriculture, maintenance of basic farm machinery, craftsmanship, handicrafts, nutrition, weaving, knitting and textile making process. This would accomplish two things, first it would raise local standards of awareness producing better citizens who are more self-sufficient, and second, keeping people out of the resource-taxed urban areas and utilizing and building on rural resources. But in the real world, it seems that educational programs are aimed at accomplishing the lowest standard, with neither the interest nor funding to set higher the state labour organization sights. and a prolition of the second sects to support labourers and

Labour

The governmental policy toward labour is : the greatest service to the most people. It is looking at migration from the rural to urban areas and is currently setting up industrial zones to siphon off the excess from the labour pool. It battles for foreign

fatelities in constants and transportation industries

investment and against trade protectionism. It would be especially helpful if a woman's and minor's labour division could be effected to stop the gross exploitation of these two groups of workers. to excels exposure to vibration - hit the cousai relationship

-37-

One very necessary in-put that needs no exhausting planning or huge budget is to have female employees recognize their legal rights regarding employment. The study clearly showed that few of the women, at any educational level, knew how long paid/ unpaid maternity leave was, about sick leave, number of toilets required per so many workers, duration of breaks, maximum hours of work, definition of temporary, part-time and regular employment, responsibility of employers for the health and safety of their workers. This information should be written out in simple language on one small poster with the addition of a telephone number and address of a labour representative to contact in case of questions or complaints.

This poster would then be delivered to each employer of women and minors, and he should be required by law to have it posted in a predominate place at the work site for all his employees to read. mousing social problems . Although newspapers mave little directistion metry working whien, the factory menegers, governmental The benefits would be enormous : education of the employee,

the employer, the raising of standards for the state labour organization, and a positive sign that government wants to support labourers and will be available when needed.

ow up, and like advertising, there has to be repeated Health and safety through several sources : mail outs, mole CALONITE SHALLERING

Once again the ranking of priorities precludes much action for women and their health problems. There are by far too many fatalities in construction, mining and transportation industries

patterns, But chere disconnection are events, not providens. They

tackle than has layered governmental organizations with personnel. that are both incapable of action and incompetent to perform. This is not a situation unique to Thailand and with the general inprovement in education levels and a more progressive personnel, undoubtedly the bureaucracy will lunch forward more often than before.

The poor (with emphasis on the low wage level) teachers have enough to do just to get all the school-age children through an education where they can read, write and do some mathematics. It would be so nice if they could set up a continuation school system, giving adults in rural communities the basic (if they missed it as children) or advanced education, increasing their understanding in subjects as : crop rotation, financing and agriculture, maintenance of basic farm machinery, craftsmanship, handicrafts, nutrition, weaving, kuitting and textile making process. This would accomplish two things, first it would raise local standards of awareness producing better citizens who are more self-sufficient, and second, keeping people out of the resource-taxed urban areas and utilizing and building on rural resources. But in the real world, it seems that educational programs are aimed at accomplishing the lowest standard, with neither the interest nor funding to set higher

The governmental policy toward labour is : the greatest
to take limited governmental resources from them to look after the subtle illnesses induced by bad controls in textile mills. No doubt there are fatalities in mill work too - especially miscarriages due to excess exposure to vibration - but the causal relationship is more statistical than appearant. "Weavers deafness", "Brown lung" and other health problems abound, but with the limited resources, government will look to reducing deaths, dismemberments and disabilities due to accidents.

-38-

In a far distant future, it would be expected that the emphasis would be placed on preventative controls, tightening restrictions for the uses of toxic substances, reducing overtime and banishing night-shifts, requiring the use of protective devices, but at present, operations are geared to a 'body count' (fatilities, etc.) of the effects of ignored health and safety requirements.

Media nors women to become representatives as show themselves, Media Trans nor by women for raising women's awareness to their

The media in-put is attractive in that it reaches directly into the lives of all parties concerned, and has a vested interest in exposing social problems. Although newspapers have little circulation among working women, the factory managers, governmental officials and general public are avid readers of Bangkok papers that have national circulation. Television is highly valued in getting into all levels of society with hard-hitting visual presentations that stick in memories and so effectively amounce changes in living patterns. But these announcements are events, not programs. They have no follow-up, and like advertising, there has to be repeated exposure and reinforcement through several sources : mail outs, radio spot advertisments, as well as articles and television exposure. Even with all this, there can be no long-term sustained benefits without an actual re-alignment of underlying causes.

investment and against trade protectionism. It would be especially indipid if a woman's and minor's labour division could be effected to stop the gross exploitation of these two groups of workers.

-37-

One very necessary in-put that needs no exhausting platning or huge budget is to have female employees recognize their legal rights regarding employment. The study clearly showed that there of the women, at any educational level, knew how long paid/ unpaid maternity leave was, about sick leave, number of toilets required per so many workers, duration of breaks, maximum hours 'of work, definition of temporary, part-time and regular employment, machers. This information should be written out in simple language and theses of a labour representative to contact in case of address of a labour representative to contact in case of suestions or complaints.

This poster would then be delivered to each employer of women and minors, and he should be required by law to have it posted in a predominate place at the work site for all his employees to read.

The benefits would be enormous : education of the employee, the employer, the raising of standards for the state labour organization, and a positive sign that government wants to support labourers and will be available when needed.

Health and safety

Once again the ranking of priorities precludes much action for women and their health problems. There are by far too many fatalities in construction, mining and transportation industries

Media would be most effective as an "ice breaker", to announce a major change or new policy in dealing with women workers by one of the other in-put conduits. In short, media needs the news of another sector's activity.

employer is withinly interested in the industry, as it belongs to him

and the wUnions a primary, indespensible resource. Although the

As mentioned previously, unions are male organizations for male problems. To the effect that women share a problem with the men, they are helped by the union. Unions are locked in a violent struggle against fierce combatants on all sides and would not be about to avoid their deadly advisary by helping women get essentially a more comfortable life-style.

A far-seeing union leadership will hedge its bets through by, 1) cultivating as many women representatives as show themselves, 2) soliciting more women to become representatives, 3) setting up training programs run by women for raising women's awareness to their potential power in union organizing, 4) giving out-right scholarships to improve the education level of women who are likely to remain in their general job class and assist other women of the same class. These programs would not show 'profit' under current circumstances, but as the labour field matures, it will allow women a full partnership. Many of these women will then out to form a separate but equal union and that is no block to unionism but would highten awareness in all labour sectors that women can take care of themselves when given half an opportunity.

Employer

As you will remember, the premise in selecting a champion for the women textile workers was fulfilling two requirements :

to take limited governmental resources from them to look after the subtle illnesses induced by bad controls in textile mills. No doubt there are fatalities in mill work too - especially ascarriages due to excess exposure to vibration - but the causal relationship is more statistical than appearant. "Weavers deafness", "Brown lung" atd other health problems abound, but with the limited resources, government will look to reducing deaths, dismemberments and disabilities due to accidents.

In a far distant future, it would be expected that the emphasis would be placed on preventative controls, tightening restrictions for the uses of toxic substances, reducing overtime and banishing night-shifts, requiring the use of protective devices, but at present, operations are geared to a "body count" (fatilities, etc.) of the effects of ignored health and safety requirements.

Media

The media in-put is attractive in that is reaches directly into the lives of all parties concerned, and has a vested interest in exposing social problems. Although newspapers have little circulation among working women, the factory managers, governmental officials and general public are avid readers of Bangkok papers that have national circulation. Television is highly valued in getting into all levels of society with hard-hitting visual presentations that stick in memories and so effectively amounce changes in living patterns. But these amouncements are events, not programs. They have no follow-up, and like advertising, there has to be repeated spot advertisments, as well as articles and beleviation examples in living with all this, there can be no long-term sustained benefits without an actual re-alignment of underlying causes.

interest and authority. This appearantly excludes : the workers themselves, the union, the government, current women's organizations, media, and we are left with the employers, who at first sight seem to be more dragon than champion. But it meets both qualifications : the employer is vitally interested in the industry, as it belongs to him and the women are a primary, indespensible resource. Although the interest is self-centered, it provides a motivation that is lacking in the other groups. And secondly, surely no organization has more authority over the working conditions, the very lives of these women. Therefore we have discovered champions, although reluctant ones. Suppose they are not to be worked with but against, they would be a powerful advisory. Would it not be much better to gain a partner than an obstruction?

Conclusion : The provide the backwards in the decline in the particular power of their backwards. Industrial growth has resilted in the joint for machines and their technicians than for the industrial labour force. Textile all is the very

The linch-pin to the working conditions of female textile workers is their employer. With his cooperation all would be possible, without it nothing can be accomplished. A common ground must be discovered to the mutual benefit of employer and textile worker, and an avenue to direct the employer's attention to sharing those benefits with the workers.

not line workers. Therefore the market shows a squeeze and bias against the traditional methods, forcing them to be less and less productive. Workers are in turn squeezed by exployers to make up the loss to market share. The sourcement can consider regulating marginal mills but of existence or, as it has already decided, it can encourage the current arrangement as providing, relief from unexployment of excess rural populations.

Media would be most effective as an "ice breaker", to arnounce a major change or new policy in dealing with women workers by one of the other in-put conduits. In short, media needs the news of another sector's activity.

Unions

As mentioned previously, unions are male organizations for male problems. To the effect that women share a problem with the man, they are helped by the union. Unions are locked in a violant struggle against fierce combatants on all sides and would not be about to avoid their deadly advisary by helping women get essentially a more comfortable life-style.

A far-seeing union leadership will hedge its bets through by, 1) cultivating as many women representatives as show themselves, 2) soliciting more women to become representatives, 3) setting up training programs run by women for raising women's awareness to their potential power in union organizing, 4) giving out-right scholarships to improve the education level of women who are likely to remein in their general job class and assist other women of the same class. These programs would not show 'profit' under current circumstances, but as the labour field matures, it will allow women a full partnership. Many of these women will then out to form a separate awareness in all labour sectors that women can take care of themselves when given half an opportunicy.

Employer

As you will remember, the premise in selecting a champion for the women textile workers was fulfilling two requirements :

FINAL CONCLUSION tion anong women workers is not remarkably

comprehensive. Women are besitant to offend their employees, We who have been given educational experiences under Western methods and have come under the influence of an international culture promising economic development, social evolution and expansion of personal opportunity, tend to look at our native country as in social transition for the better. But when we examine that transition, we see not just a gap between the present situation and the hope for future, but forces in total opposition to that goal. This antagonism is across the board in social, economic, domestic and industrial relations. Inflation, devaluation and rising costs of imports have robbed the earning value from those who have earned the least. Women, who would otherwise be home-makers, have been pushed into the labour force to make up for the decline in the earning power of their busbands. Industrial growth has resulted in more jobs for machines and their technicians than for the industrial labour force. Textile mill is the very first industry that absorbed the women workers. This true to all industrialized countries including Thailand.

-41-

But nowadays textiles have been called a "sundown" industry, meaning that the technology has advanced to a point that no one would invest in labour-intensive mills if they could purchase the latest equipment, which use technicians not line workers. Therefore the market shows a squeeze and bias against the traditional methods, forcing them to be less and less productive. Workers are in turn squeezed by employers to make up the loss in market share. The government can consider regulating marginal mills out of existence or, as it has already decided, it can encourage the current arrangement as providing relief from unemployment of excess rural populations.

interest and authority. This appearantly excludes : the workers themselves, the unicn, the government, current women's organizations, media, and we are left with the employers, who at first sight seem to be more dragon than champion. But it meets both qualifications : the employer is vitally interested in the industry, as it belongs to him and the women are a primary, indespensible resource. Although the interest is self-centered, it provides a motivation that is lacking authority over the working conditions, the very lives of these women interefore we have discovered champions, although reluctant ones. Suppose they are not to be worked with but against, they would be a powerful advisory. Would it not be much better to gain a partner than an obstruction?

Conclusion :

The linch-pin to the working conditions of female textile workers is that employer. With his cooperation all would be possible, without it nothing can be accomplished. A common ground must be discovered to the mutual benefit of employer and textile worker, and an avenue to direct the employer's attention to sharing those benefits with the workers.

BURGOGSAFEE

-42-

Unionization among women workers is not remarkably comprehensive. Women are hesitant to offend their employers, who have shown no hesitation to discriminate against union members. In a recent strike against a large Japanese-operated mill, the government forced the workers back to their jobs. The government feels unions disrupt the investment climate and are often just political agitators. In-put into Thailand from international labour organizations is seldom welcomed. What are we to do with our wonderful vision of development, evolution and opportunity now ? What are we to do with the improvement of the quality of life and health for all for the year 2000 , especially for those women workers ?

As has often been stated, "The more things change, the more they are the same". Just because we are alert and involved in the development plans, does not overpower the negative influence. Intentions have never been enough to accomplish change. In this particular case, in-put conduit is recommended for serious attention of all concerned, i.e., government, employers and workers themselves. Different actions are urged to be cooperatively implemented. But most of all, sincerity, commitment and continuity are the heart of this work.

Kosolwetza, hapopenso - Maninag Brance at Manan An Aces, Marianal Textile Mills in Bangane - Thenbart Passepolitan Scow, Marianal Institute of Development Achertectuation, Bargack, 1972 Labour Department - Research Report in Momining Cobilitions of

Textile Industry in Rendson and year not agreened (1971 spring Nonghamid: Tilding & A Share Accordants of some and ballace The Portrans

FINAL CONCLUSION

We who have been given educational experiences under Western methods and have come under the influence of an international culture promising economic development, social evolution and expansion of personal opportunity, tend to look at our native country as in social transition for the better. But when we examine that transition, we see not just a gap between the present situation and the hope for future, but forces in total opposition to that goal. This antagonism is across the board in social, economic, domestic and industrial relations. Inflation, devaluation and rising costs of imports have robbed the earning value from those who have earned the least. Women, who would otherwise be home-makers, have been pushed into the labour force to make up for the decline in the earning power of their busbands. Industrial growth has resulted in more jobs for machines and their technicians than for the industrial labour force. Textile mill is the very first industry that absorbed the women workers. This true to all industrialized countries including Thailand.

But nowadays textiles have been called a "sundown" industry, meaning that the technology has advanced to a point that no one would invest in labour-intensive mills if they could purchase the latest equipment, which use technicians not line workers. Therefore the market shows a squeeze and bias against the traditional methods, forcing them to be less and less productive. Workers are in turn squeezed by employers to make up the loss in market share. The government can consider regulating marginal adils out of existence or, as it has already decided, it can encourage the current arrangement as providing relief from unexployment of excess rural populations.

BIBLIOGRAPHY

Unionization among women workers is not remarkably comprehensive. Nomen are hesitant to offend their employers, who have shown no hesitation to discriminate against union members. In a recent scrike against a large Japanese-operated international labour organizations is seldom welcomed. What are we to do with our wunderful vision of development, evolution and opportunity now ? What are we to do with the improvement of especially for those women workers ?

more they are the same". Just because we are elect and involved in the development plans, does not overpower the negative influence. particular case, in-put conduit is recommended for serious attention of all concerned, i.e., government, employers and workers themselves. Different actions are unged to be conferatively

Frequently Found in Textile Waddets, Anamat of Public Health, Bangkok, Vol. 12, Mr. 1. January, 1982. 1. American Heritage Series : The Female Experience, Bobbs-Merril of Women Textile Mashane in Bailant on Dry and Shift work

10. Monighanich, Malines : Subjective Positing Symptoms

- Women Employees, Chicago, U.S.A., 1981, p. 2-6.
- 3. Chandravitura, Nikom : Thai Labour, Especially Chapter 4 "Working Condition and Wages", Karavek Printing House, Bangkok 1978, pp. 71-124. Tennils Universities of Thailand and Japan, - Journal of
- 4. Dixon, Ruth : Rural Women at Work, John Hopkins University Press, Baltimore, 1976. al (The Development of Provincial
- 5. International Labour Office : Making Work More Human, Geneva, 1975, pp. 2-3. and a Study of the Basist
- Journal of Society Development on Women Labour "The Redeemer", Bangkok, May, 1981, pp. 21-25.
- Institute of Development Administration, Bangkok, 1972.
- Textile Industry in Bangkok and Thonburi, Mimeograph, Bangkok, year not appeared (1971 approx.).
- The National Congress of Thai Labour, Bangkok, 1982.

2. American Medical Association : Occupational Health Service for

6. Kasemsook, Sumitra : An Interview on Textile Women Workers,

7. Kosolwatna, Napaporn : Working Status of Women and Children in Textile Mills in Bangkok - Thonburi Metropolitan Area, National

8. Labour Department : Research Report on Working Conditions of

9. Wongphanich, Malinee : A Study Report on Health Conditions, Accidents at work and Welfare Provision for Industrial Workers,

BIBLIOCRAPHY

- 1. American Heritage Series : The Fanale Experience, Bobbs-Marril
- Women Exployees, Chicago U.S.A., 1981, p. 2-6.
- "Working Condition and Wages", Karavek Frinting House, Bangkok
- 4. Dixon, Ruth : Rural Women at Work, John Hopkins University Press, Baltimore, 1976.
 - International Labour Office : Making Work More Human, Geneva,
 - 6. Kasersook, Sumitra : An Interview on Textile Workers, Journal of Sectety Development on Momen Labour "The Reducher"
- 7. Kosolwatna, Napaporn -: Working Status of Women and Children in Textile Mills in Bangkok - Thonburt Matropolitan Area, National Institute of Development Administration, Panylok, 1972.
- 8. Labour Department : Research Report on Working Conditions of
- 9. Wongphanich, Malistee A Study Report on Health Conditions, Accidents at work and Welfare Provision for Industrial Workers, The National Congress of Thai Labour, Bangkok, 1982.

10. Wongphanich, Malinee : Subjective Feeling Symptoms Frequently Found in Textile Workers, Journal of Public Health, Bangkok, Vol. 12, No. 1, January, 1982.

- 11. Wongphanich, Malinee, et al : Conditions of Working Life of Women Textile Workers in Thailand on Day and Shift work Systems, in Kogi, K., Miura, T. and Saito, H. (Eds.) : Shiftwork : Its Practice and Improvement, Journal of Human Ergology, Vol. III. Supplement 1982, Center for Academic Publications Japan, Tokyo, 1982.
- 12. Wongphanich, Malinee, et al : A Comparative Study of the Working Life Conditions of Industrial Female Workers in Textile Industries of Thailand and Japan, Journal of Science of Labour, Vol. 59, No. 3 (Part II), Japan, 1983.
- 13. Wongphanich, Malinee, et al : The Development of Provincial Industrial Health Service in Thailand, Mahidol University, 1983.
- 14. Wongphanich, Malinee : A Comparative Study of the Health Conditions of Jute Mill Workers, 1979 and 1983, Somdej Kromphraya Chainatnarenthon Foundation, Bangkok, 1983.
- 15. Wongphanich, Malinee et al : Health Conditions of Women Workers in Medium-sized Spinning Mills with Traditional and Advanced Machinery, presented in the XXI International Congress on Occupational Health, The Permanent Commission and International Association on Occupational Health, Dublin, Ireland, 9-14 Sept., 1984.
- Wongphanich, Malinee et al : The Humanization of Working 16. Conditions : Study on the Cooperative Effort of Government, Industry and Labour, Mahidol University, 1986.
- 17. Wongphanich, Malinee : Health and Safety Conditions in Manufacturing : Japan and Thailand, Asian Productivity Organization, Tokyo, Japan, 1987.

-44-

THE NATION

ants

THE NATION 45 Seminar on labour wants better working conditions

By Tulsathit Tuptim

WORKING conditions in general must be improved and tripartite cooperation among employers, workers and the government is needed to prevent health hazards at workplaces, participants at a seminar on labour on Wednesday said.

Wednesday said. The call was made after the presentation of a study on "The Humanization of Working Conditions: The Cooperative Effort of the Government, Industry and Labour" conducted by a team of labour experts of the Mahidol University led by Assoc Prof Dr Malinee Wongpanich.

According to the study, improvement of working conditions in Thailand was obstructed by official red tape and lack of expertise on the part of the authorities. These authorities are part of the authornies. These authornies are required to take an active role in dealing with the increasing occupational illnesses but the government's unclear policy has caused poor cooperation between them and employers and workers.

Figures from the Labour Compensation Fund show a sharp increase in the rate of accidents at workplaces in the ten-year period ending 1983. About 4 out of one million workers died from

the accidents in 1983 and more than 34,000 received compensations totalling about 205 million baht from the fund as a result of accidents in factories. In 1974, the fund paid compensations for only 3,200 workers injured while on duty, according to the statistics. Dr Malinee said during the one-day seminar held at the Imperial Hotel, jointly by the university and the West German Friedrich Ebert Stiftung Foundation, that moves to improve working conditions have faced opposition "because changes mean increasing or declining the accidents in 1983 and more than 34,000

"because changes mean increasing or declining

"because changes mean increasing or declining benefits of groups concerned." Her study, based on a two-year research project in Samut Prakan, one of the country's largest industrial provinces, also pointed out that many accidents at workplaces were a result of the lack of information made available to authorities and a shortage of experienced labour inspectors.

inspectors. She said the cooperation between the public and private sectors is minimal and inconsistent. She said the managements of private firms should be allowed to directly deal with the issue nd private sectors is minimal and inconsistent. The said the managements of private firms hould be allowed to directly deal with the issue ecause they are closer to the problem than the overnment. She suggested that employers and workers set because they are closer to the problem than the government.

Health, Bangkok, Vol. 12, No. 1, January, 1982.

Publications Japan, Tokyo, 1982.

Wongphanich, Malinee, et al : A Comparative Study of the Working Life Cruditions of Industrial Female Workers in Textile Industries of Thailand and Japan. Journal of Science of Labour, Vol. 59, No. 3 (Part II), Japan, 1983.

Wongphanich, Malinee, st al : The Development of Frovincial Industrial Health Service in Thatland, Muhidol University,

Scordej Kromphraya Chainstranzukiran Foundation, Bangkok, 1983.

Science in Medium-sized Spinning Scills with Fradicional and Advanced Machinery, presented in the XXI International derargess on Occupational Health, No Fernament Commission and international Association on Neuroscienal Health, Bublin,

Monaphanich, Malinee et al : The Matanipation of Working

17. Monghamich, Malinee | Health and Safety Conditions in Greanicantro, Tokyo, Japan, 198



lack of work safety.

up a self-help organization comprising education, information and health service units with assistance from the government.

should be continued and the government should improve efficiency of its networks responsible for the matter. "A coordinating committee is needed to solve problems of negligence of authorities and-at the same time to stimulate employers to pay

FEMALE workers at a factory in Phra Pradaeng display their disfigured hands ... a result of the

However, she said high-level cooperation

cope with the problem of occupational safety. Dr Nikom Chandaravithoon, a former director general of the Labour Department, meanwhile, said workers should start campaigning to seek a more active role in the matter so that the

government can better realize their importance. "After considering labour policy of the Prem V administration, I feel that workers will have to work harder to achieve this goal," he said.

Dr Nikom said the problem directly concerned the economy because if health hazards at workplaces were reduced, the production cost would certainly be cheaper because companies would not have to pay compensation.

-46-

SEMINAR ON LABOUR WANTS BETTER WORKING CONDITIONS (Cont.)

Workers lacked bargaining power said President of Labour Congress

in the issue.

hopes," he said.

a

TEXTILE worker Mins Sung-

was: Multing ends meet is a pro-

tilets for most werkers here

A TOPAL of 5,746 workers to Phras year and about 16 million hafs in we compensation way paid out. Ten work

up to the blandard, of survey of finner provines, of which Parapanterns is ound that should of the 65,816 workness od in a poll gold their hesployaya geni lowed the labelor laws and, petering mensures that down; Bet violations problem, especially in terms of working breaks, holdays, overtime payments minimum wags rates, it well as physicial

ous, which, is heavily polluted. A to: 87,184 workers in 1,242 instile, whereing metal plante in Phrepradating politinus to s in myore moise and publicion.

total of 114 factories, with 7,665 wor have not yet installed appropriate or iting Old muchines with

THE NATION Seminar on labour wants better working conditions

mbour Balantat

WORKING conditions in general must be Sourced and impartitle cooperation among led to prevent health hazards at workplaces, inipanta at a seminar on labour on

Alteratory said the cell was made after the presentation of a on "The Humanization of Workling on "The Humanizative Effort of the manneat Industry and Labour" conducted a team of labour exports of the Mahidol county led by Assoc Prof De Malineo

enording, to the study, increventent of utilities red tape and lack of expectate on the uting to take an active role in dealing with increasing occupational illnesses but the nteam's unclear policy has caused peer ration between them and employers and

features from the Labour Compensation Fant new a sharp increase in the role of socidents at explaces in the tan-year pariod ending (1963, Specific 4 out of one collion workers due from andents in 1983 and more that 34,000 aved compensations totalling about alizes bakt from the fund as a result of memory in factories. In 1974, the fund paid computer of loc only 3,200 workers injured

is on duty, according to the statistics. The on duty, according to the statushes. The Mahasa caid during the one-day samiaar of at the Imperial Hutal, (startly by the investy and the West German Friedrich Edort Flung Foundation, that moves to improve sidned conditions have faced oppos binnes changes mean increasing or declining

there are a study, based on a two-year research liject in Samut Prakan, one of the country's rest industrial provinces, also pointed out the est industrial provinces easi pointed ent that are accidents at workplaces were a result of However, she said high-level cooperating a back of information made available to should be continued and the government should

the said the cooperation between the public to salve problems of neiligence of authorities and the private sectors in minimal and inconsisting. At the same time to stimulate couployers in pay and the managements of private firms increased the minimate workers, "the said the anised the anised the anised the anise to the same time to the private time."



PEMALE workers at a factory in Phra Pradaeng display their disfigured hands ... a result of the tack of work safety.

up a self-help organization comprising education, information and health service units with assistance from the government.

chorities and a shortage of experienced isbour improve efficiency of its networks responsible for the matter. "A coordinating committee is needed

and the showed to curectly area wind the next in a continuar was intended by over 100 exception of a state of

tops with the problem of occupational safety Br Nikom Chandarsvithoon, a former director general of the Labour Department, meanwhile stand workers should start competizing to seek a more active role is the matter so that the government can better realize their inportance after considering based policy of the Frem V work harder to achieve the goal," he seek or Mixon seld the problem directly concerned the economy because of heatth hereafts and the economy because of heatth hereafts and

worldplaces were reduced, the production cos-would certainly la chasper because companie would not have to pay compensation

Industrial accidents His view was shared by the president of the Employers Confederation of Thailand, Chamnien Chuangtrakul, who said the way-out of the problem was to convince employers they would benefit in the long run if working

conditions were improved. "Under the current economic situation, there are no 'ideal employers' who think of workers' welfare first. We, therefore, have to make them believe that it will be beneficial if their employees work in a better and safer environment," he said. Chamnien said workers must be cooperative and the government must have a significant role

"The concept of a good working life should be built with cooperation between parties concerned and the government policy must be clearer. I feel hopeless after looking at the Sixth Economic and Social Development Plan. But we all cannot lose

Thanong Po-arn, president of the Labour Congress of Thailand, said workers lacked bargaining power to fight for better working conditions mainly due to the unemployment problem. "If workers protested about conditions, they would have to find a new job. The employers won't care because the labour market is glutted

be resulted by get

seems for tengening out in magins and the

er 42 Seculiar Mere Via UN center

with new work force," he said. He called for tax reduction on imports of new machines to replace old ones widely used at workplaces and the use of proper protective coverings to prevent accidents as the way to "humanize conditions for Thai workers."

"Some workers owe up to 30,000 bant hedenies of the dimension squares r. Most of us here

from Matthion Ratchasinta provinces," she

THE NATION REVIEW, 17 JULY 1984



FEMALE workers at a television set factory in Phrapradaeng: Larger plants offer more benefits.



Industrial accidents remain a major problem

A TOTAL of 5,746 workers in Phrapradaeng ly mean more financial security. industrial town reported accidents on duty last year and about 16 million baht in workmen's compensation was paid out. Ten workers died as a result of the accident.

Safety in most of the factories isn't always up to the standard. A survey of Samut Prakarn province, of which Phrapradaeng is a part, found that most of the 65,816 workers questioned in a poll said their employers generally followed the labour laws and, minimum safety measures laid down. But violations remain a problem, especially in terms of working hours, breaks, holidays, overtime payments and minimum wage rates, as well as physical checku ups.

Even where physical checkups are offered, they were considered too general for the kind of health hazards that have plagued the industrial town, which is heavily polluted. A total of 87,184 workers in 1,242 textile, weaving and metal plants in Phrapradaeng continue to suffer from severe noise and pollution.

A total of 214 factories, with 7,665 workers, produce plastics, chemicals, water batteries, aluminium acid and other poisonous chemicals. They have not yet installed appropriate or effective safety facilities. Old machines with outdated or obsolete safety features have been responsible for maining many workers.

Local labour officials predict a more vocal call will be made for effective safety measures. Last year, 145 more plants were set up with an additional 3,031 workers. This year, it is expected that Prapradaeng will continue to grow despite the congestion and the negative factories that have gone from bad to worse.

For the average worker, however, employ. ment at this industrial centre doesn't necessari-

SEPTIMAR ON LABOUR WANTS

Workers lacked bargaining power

said President of Labour Congress

His view was shared by the president of the Employers Confederation of Thailand, Chamnien Chungtrakul, who said the way-out of the problem was to convince employers they would benefit in the long run if working

conditions were improved. "Inder the current ocunamic situation, there are no 'ideal employers' who think of workers' and no mean emproyers with think of which then wellare first. We, therefore, have to make them bedges that it will be beneficial if their employees work is a better and safer environment," he said. Chammian said workers must be cooperative and the government must have a significant role

In the issue "The concept of a good working life should be built with cooperation between parties concerned and the government policy must be clearer. I feel inspetes after looking at the Suith Economic and bound Development Plan. But we all cannot lose bound

bopes," he said. Thaneng Po-arn, president of the Labour Congress of Thailand, said workers lacked burgeining power to fight for better working conditions mainly due to the unemployment problem. "If workers protested about conditions, they would have to find a new job. The employers

uncy would have to this a new job, i he employed won't care because the labour market is glutted with new work force," he said. He called for tar reduction on imports of new machines to replace old once widely used at workplaces and the use of proper protective coverings to prevent accidents as the way to "humanize conditions for Thai workers."

Miss Sangwan Klaisomboon, 27, who has worked for 13 years in a textile factory here, said the longer she works here, the more heavily indebted she becomes.

ployees, 90 per cent of whom are female. houses outside at about 700 baht a month "

She said that since the machines operate around the clock, there are cases of workers' hands being cut off every year. A doctor comes to the factory once every three days, two hours

each time.

"A new worker is told in no uncertain terms that she can't get pregnant, until she has passed the probation period. She is paid 54 baht a day the first six months. The average annual pay increase is from 1.50 baht to three baht per day," she reported. Because of the low wages, most workers live

from hand to mouth. It has become a common practice for them to borrow money from better paid employees, who charge exorbitant interest rates of 20 baht per month. The rates go up during the high-demand season. especially when schools are open.

"Some workers owe up to 30,000 baht because of the financial squeeze. Most of us here come from Nakhon Ratchasima province," she said

Miss Sangwan herself is about 4,000 baht in debt." "I got that loan to enable my brother to go to school," she said. Many workers join chit-fund pools for about

LABOUR leader Boo Violation of labour laws a lem.



Where she works, there are 1,150 em-

"I get 73 baht a day but we don't have too good a welfare system, although the factory does provide living quarters. But then, each room is jammed with 12 persons. And that's for singles only. Married workers have to rent



500 baht each. Their personal cash-flow lems can be resolved by getting a lump from the pools in time of need, althoug terest can be as high as 500 baht for the rig take the pooled funds out.

"The longer one works here, the more one piles up - or so it seems," she complai Mr Boonsong Vicharana, 61, leader

metal workers union in Phrapradaeng, sain two most important problems affecting wo here are the wages and violations of the la protection law.

"This year alone, we have submitted quests for improvement of wages and ber at 42 factories. More than 100 cases of nature have been brought to court. We have only about 10 cases. The average minii wage rates here are between 60 to 65 ba day, but those working in small texti' cookie factories may be paid only 35 ha day." he said

"THE WEAVERS"

Your work-hardened and perspiring hands contain soft flesh still,

Your delightful smile is touched with its beads of sweat,

Your beauty contains simpleness and shows an open heart.

What determination and constructive influence you exemplify to us.

You are not only cloth weaving, my loves,

You weave life itself - you produce and you intervine lives,

You weave the pattern of the world, of human fortitude, its history,

You are living streams that feed our parched earth.

Until evening breezes your work remains, with fibers and lives, raw and tough, Lengthening, binding, entwining the fibers of society Echoing your contributions in our rememberance.

Do weave on that long and widening strand of lives, From earth to the twilight stars. Do enbind it with freedom and pride, Making it your and our flag of victory.

Thai Version :

English Version : Malinee Wongphanich, M.D., 1983.

FEMALE worken at a television set factory in Phrapradaeng: Larger plants offer more benefits.

THE NATION REVIEW, 17 JULY 1984

LABOUR leader 800

Violation of labout laws a

Industrial accidents remain a major problem

TEXTHE worker Mits Sans-

ed in a poll said their employers generally fol-

lowed the labour laws and, minimum safety

problem, especially in terms of working haurs,

breaks, holdays, overtime payments and

minimum wage rates, as well as physical check-

Even where physical checkups are offered,

they were considered too general for the kind of health hazards that have plaqued the industrial

town, which is heavily polleted. A total of

A total of 214 factorian with 7,665 workers,

produce plastice, chemicale, water hatteries,

aluminium acid and other pointenous chemicals.

They have not yet installed appropriate or ef-

fective safety facilities. Old machines with out-

dated or obsolete safety features have been res-

call will be made for effective safety measures.

pecied that Propradating will continue to grow

For the sverage worker, however, employ-

tories that have gone from bad to worse.

consible for maining many workers.

A TOTAL of 5,746 workers in Phrapradaming is maan more financial security. Miss Sanswan Klalsomboon, 27, who has industrial town reported accidents on duty last year and about 16 million haht in worknen's worked for 13 years in a textile factory here. compensation was paid out. Ten workers died and the longer she works here, the more heavily adabted the becomes. Safety in most of the factories ize't always.

Where she works, there are 1,150 em ployees, 90 per cant of whom are female. up to the standard. A survey of Samut Frakmin province, of which Phrapradaeng is a part, "I get 73 baht a day but we don't have too ound that most of the 65,816 workers question-

good a welfare system, although the factory door provide living quarters. But then, each room is jammed with 12 persons. And that's measures laid down. But violations remain a "for singles only. Married workers have to rent Relies outside at about 700 baht a month.

She said that since the machines operate around the clock, there are cases of workers' hands being cut off every year. A doctor comes to the factory once every three days, two hours

"A new worker is told in no incertain terms that she can't get pregnant, until she has 87,184 workers in 1,242 textile, wassing and passed the probation period. She is paid 54 metal plants in Phrapradading constinue to saifler bailst a day the first six months. The average from the pools in time of need, althouannual pay increase is from 1.50 baht to three terest can be as high as 500 baht for the ris

Because of the low wages, most workers live from hand to moutil. It has become a common practice for them to borrow money from better paid employees, who charge exor- metal workers union in Phrapradaeng, sa bitant interest rates of 20 built per month. The two most important problems affecting is rates go up during the high-cannand season, here are the wages and violations of the is

"Some workers owe up to 30,000 baht hecause of the financial squarge. Most of us nere

Miss Sangwan nerself is shout 4,000 baht in

Phrapradaeng Industria saturatio



lems can be resolved by getting a lump

"The longer one works here, the more one piles up - or so it seems," she comple Mr Boonsong Vicharana, 61, Jeader

only about 10 cases. The average miniwage tates here are between 60 to 65 be coolde factories may be paid only 35 ha

Nawarata Pongpaibool, The Book World Gazette, 25 February 1979