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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION
Vienna International Centre, P.O. Box 300, 1400 Vienna, Austria
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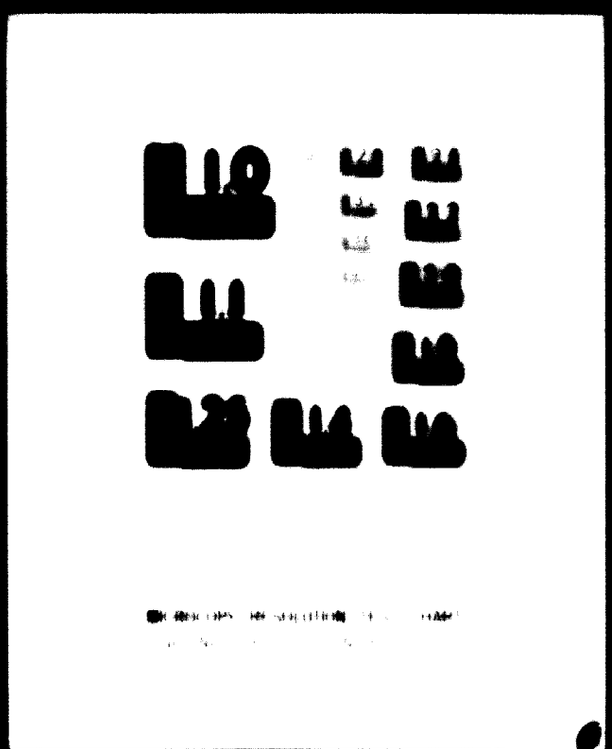

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Introduction

The Hong Kong manufacturing industries are almost mainly consumer products and exporting industries, the most important markets being the United States, the United Kingdom and the Federal Republic of Germany. In [illegible] the value of Hong Kong manufactured exports has been in the region of [illegible] billion.
These exports included textiles, primarily garments, plastic articles, electrical equipment and transistorised electronics, toys and metal products.
A very high percentage of these export products are manufactured to the specifications and indications of the buyer of the importing country. Hong Kong industry acts as contractor to the overseas importer in this sense, that production doesn't start before the final agreement is received on all technical aspects of the packed product.

The Hong Kong manufacturing industries faces now the approaching change in its marketing operations in this sense, that exports on detailed specifications is foreseen to decrease and hence the export by selling its self-designed products should increase in order to maintain the prosperity increase for Hong Kong.

Hong Kong manufacturing industry is consumer oriented and its markets are in the most economically advanced countries, where convenience is required and where the product more and more should sell itself because of the growing importance of the self-service systems in retailing.

Modern, suitable and attractive packaging is essential for this purpose and so up till now the industry has paid little attention to this aspect, packaging services facilities are not sufficiently available.

The task of the reported mission has been ultimately to recommend the approach to improve the packaging awareness of the industry.
The recommendations are based on the results of a survey, executed during the consultancy period of the mission.
The mission involved:

a) to ascertain the current and future needs of the Hong Kong manufacturing industry for promotional packaging design services for consumer products

b) to examine the packaging industry in Hong Kong as well as other existing packaging design services available to Hong Kong industrialists

c) to recommend how the available facilities of the Hong Kong packaging industry and of packaging design services could be improved, expanded or supplemented to meet current and future requirements of the manufacturing industry.

[redacted] section

The role of Hong Kong manufacturing industry as another bridgehead for overseas companies' investment is based on the fact that Hong Kong is able to produce at very low costs.

The costs of Hong Kong products, including transport, are for the overseas importer lower than the costs of such products of comparable quality made in the importing country itself.

This condition is mainly due to the availability in Hong Kong of sufficient and relatively low-priced labour.

There other areas in South East Asia can provide the same role (South Korea, Taiwan and Singapore).

But productivity in Hong Kong and reasonable wage rates will also in the near future keep Hong Kong the cheaper costs of locating the business to the just mentioned other areas.

For the Hong Kong industrial corporation involved there are two ways to escape this danger. The one is to shift its activities to the other areas, to be able to collect the production in the area with the most favourable labour conditions. Establishing the possibilities for such a switch over of course requires quite an effort and needs considerable risk from the management. It appeared to that several industrial companies have already established facilities allowing for switching of production areas.

However for the Hong Kong economical conditions as such this solution is not favourable, at all industry is prepared and able to do so, and moreover the labour population will suffer the effect of a lowered level of employment.

The other way to escape the danger of losing business is to stimulate the improvement of quality and the development of original design in products, including the packaging.

There is a growing awareness of the need of product development and -design. The awareness of the need of packaging development and design, however is still newly, nonexistent and as the big majority of the Hong Kong products needs suitable promotional packaging in order to maintain its share in the overseas markets. Hong Kong should open itself to the utmost to stimulate packaging issues and packaging

producers to use and produce modern, convenient and attractive packaging and packed products.

It is emphasized that this second way out of the business loosing threat is considered as the main solution. It is felt there is no other alternative approach

All the recommendations of this mission has this goal in mind.

Recommendations

The given to recommendations cover the following subjects:

- on personnel and equipment (recommendation 3 and 4),
- on education and training in general terms (recommendation 5 and 6),
- on education and training in specific terms (recommendation 13, 14 and 15),
- on UNIDO fellowships for Hong Kong personnel (recommendation 7 A and 12),
- on UNIDO foreign experts (recommendation 8 and 9),
- on organization and operation of the packaging services (recommendation 1, 11 and 16).

1. The Packaging Centre of the Hong Kong Packaging Council should be equipped to be able to offer the Hong Kong industry sufficiently the needed packaging services.
This reinforcement, to be called the Packaging Services of the Centre, should be run as a consultancy bureau for the industry.
Its operation should be aimed at self-sufficiency.

The Packaging Services involve:

- Technical information based on already available packaging knowledge in the world.
- Technical information based on results of package testing.
- Coordination of activities of packaging training and education.

To branch these activities, the Packaging Centre and the Packaging Council will reach a level of knowledge and authority comparable with the Hong Kong management association.
This high level is favourable while it prevents unbalanced decisions, activities and visions, as Packaging touches many aspects of production, trade and marketing.

2. [redacted] the development of a [redacted] packaging service

may [redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

We would like [redacted]

- a degree [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

- [redacted]

- [redacted]

- [redacted]

- [redacted]

5. [redacted]

[redacted]

[redacted]

4. [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

It is estimated that [redacted] will be two years after the [redacted] until the first [redacted]

4. [redacted]

5. [redacted]

- [redacted]
- [redacted]

7. [redacted]

8. It is recommended [redacted]

[redacted]

The second month visit [redacted]

The visits in the second and third month will [redacted]

[redacted]

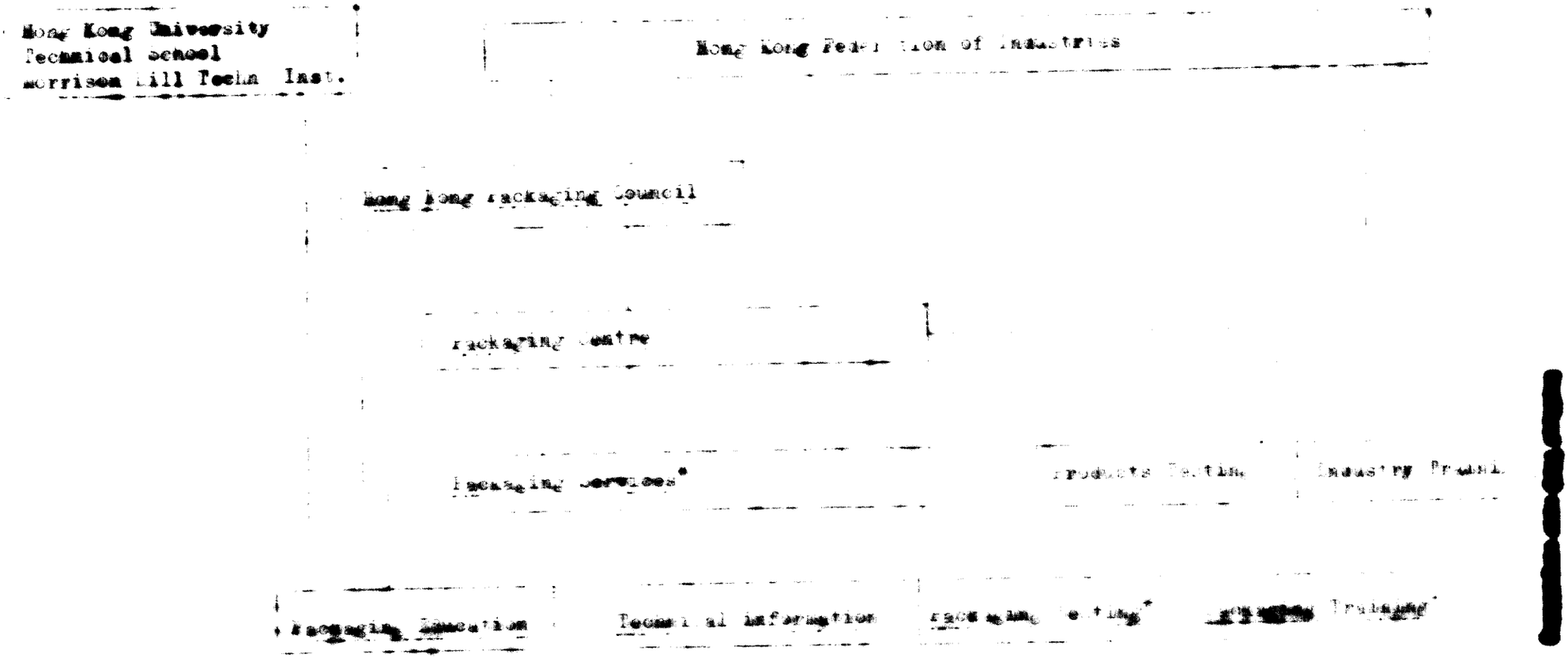
[redacted]

13. A good start on industrial design education on university level has been made in the Department of extramural studies of the Chinese University of Hong Kong and of the University of Hong Kong. The need of packaging design education on this level in Hong Kong asks for not more than one university to take care of. Both universities being excellently staffed for the subject and possessing good views on packaging design education, it is difficult to recommend one. Nevertheless the consultant feels a slight preference for the courses of the University of Hong Kong, their views on packaging education already precipitated in concrete opinions about the incorporation of the education of package development in product development education.

14. Recommend to stimulate the development of the education on packaging design on secondary technical level at the Technical School
The views of the staff of the Industrial Design Department about packaging design and engineering education meet the opinion of incorporating it in the industrial design education

15. On primary school level, the need in the future might be the education on packaging machine operators.
If it will occur, it is recommended to stimulate the development of this education at the Morrison Hill Technical Institute. This school is well equipped to do so.

16. Recommend the following organisational situation of the rackaging Services and its activities. The underlined sections are considered within the content of this mission. The sections marked with * are proposed new activities



[redacted]

a. [redacted]

b. [redacted]

c. [redacted]

d. [redacted]

- [redacted]

Packaging Information

A documentation and information centre, adequately organised and staffed, should be available in order to collect, to assess, to disseminate and to publish packaging information for the packaging user and packaging producing industry.

Packaging Testing

Packaging testing requires laboratory equipment. This service ought to be available to assess for industry the relevant properties offered [illegible] of packages and packaging materials in order to ensure the use and production of required suitable packaging.

Packaging Education and Training

To ensure correct implementation of packaging information, the value of packaging for the sale of goods produced has to be taught. The education and training ought to be aimed at packaging development and design in close connection with product development and design.

The Development of Prepacked Food

The export of convenient prepacked Chinese food products is only possible with adequate packaging. As world demand for these particular food items is increasing and as quality food production is potentially present in Hong Kong, prepacked Chinese food products may contribute to the image building of Hong Kong industries.

[redacted]

[redacted] selected in the survey has been the census figures of the Department of Commerce and the Standard Metropolitan Statistical Areas[1].

The number of new data collection needed to supply [redacted] about 4 to 5% are involved in the production and export of consumer goods. Currently, for some [redacted] to be the most [redacted] production [redacted] one way or other is or will be of importance. Of course it is not possible to include all these factories in a survey but it is not often necessary if a good and statistical sample of these factories can be visited. The description of these [redacted] collection forms [redacted] of companies, producing one or more of the following items:

[redacted]
[redacted]
[redacted]
[redacted]
[redacted]
Packaged food
Plastic extrusion
Packaging [redacted]
Packaging [redacted]

To ensure a good sample, firms in each [redacted] large, medium and small factories are visited. This had been done considering that any 5% of the companies, which were [redacted], this could then be, to be considered as the industries are responsible for 5% of the total export.

The selected industries have been visited, each visit consisted of an interview with [redacted] and observations and evaluation in each plant of the packaging and processing [redacted].

Apart to the industrial companies, the existing training, educational and [redacted] facilities has been surveyed. The survey contained discussions with management and staff and an evaluation of the possibilities to incorporate packaging training and education in existing facilities.

[1] See appendix [redacted] list of visited companies, institutes and bodies.

Appendices: A. List of recommended laboratory equipment.

B. List of recommended packaging literature and of packaging periodical subscriptions.

C. List of companies, Institutes and bodies and persons, involved in the survey.

Appendix A List of recommended laboratory equipment

Transport packaging testing

Although not included in the mission's survey, the following extention of the equipmend is recommended:

Apparatus	Standard	Estimated costs in US$	Manufacturer
Heavy drop floor*			part of building
Mechanically operated free fall tester	ASTM D755	2,000	B.K.
Incline impact tester	ASTM D880-63T	1,000	Workshop, information ASTM
Mechanical compression tester	ASTM D642	9,000	Tinius Olsen
Strapping and stapling devices		2,000	
		Total US$ 12,000	

*To be constructed right under the free fall tester to prevent propagation of shocks of fallen packs through the building.

Proptional packaging

Testing: Creep tester
Thickness gauge

To obtain in the first phase

Apparatus	Standard	Estimated costs in	Remarks
Heatsealapparatus		4	Fuhrmann
Falling dart tester	ASTM D 7		B.A.
Gaspermeability of flexible packaging materials			
Watervapour permeability meter		1,	
Electromagnetic droptable			
Vacuum packaging apparatus			
3 Psychrometers			
	Total 1st phase		

To obtain in second phase

Apparatus	Estimated costs in	Remarks
Climate box		
Small electronic compression tester	12,	
Deep freezer box		
Refrigerator		
Laboratory heatseal tester	3,	
Gaschromatograph + integrator + sampling device	1,	
x-y recorder	2,	
	Total 2nd phase	

Packaging material testing

equipment	existing	to obtain 1st phase	estim. costs in US$	2nd phase	estim. costs in US$	Standard	Manufacturer
air conditioning	yes						
Drying stoves	yes						
electronic tensile tester	yes						
bursting strength tester		yes	1,400			TAPPI 810 Su-66	Lhomargy
Pumetape tester		yes	1,400			ASTM D781-59T	GE
Flat crush tester		yes	1,000			ASTM D1225-54	TMI
Cobb water-absorption testers (Cobb-test)		yes	200			TAPPI T441 OS-63	Workshop information TAPPI
Stiffness testing device				yes[1]	750		L & W
FEFRA tensometer				yes	750		FIRA
			US$ 4,000		US$ 1,500		

[1] Test device to be mounted on existing electronic tensile tester

Recapitulation of funds involved in the recommended laboratory equipment

	1st phase	2nd phase
Transport packaging testing	[illegible]	
Promotional packaging testing	[illegible]	[illegible]
Packaging material testing	[illegible]	[illegible]

Addresses of manufacturers:

B.M. = Pfübel v.t. Korput International [illegible]

Workshop = To construct in own workshop, given estimations are only based on the costs of the components and materials

Tinius Olsen = Tinius Olsen testing machine [illegible] Willow Grove, Pennsylvania, USA

Futura = N.V. Machinefabriek "Vormgeving" Bunnik Holland

Becher = Becher Delft n.v., Vlamingweg 117, Delft, Holland

Thiess = Geismarwerkstätten für Bau- und Kugelfallmaschinen, Göttingen, Deutschland

A & G = Krämer und Grebe, Maschinen und Modellfabrik 3562 Mailbach Lahn, Postfach 1, Deutschland

M.V. = Moulett und Tuckard, 145 East Grandthorpe Ave, Fullerton, 6431, USA

Zephyr = Koel en Luchttechniek n.v., Zoetermeer, Holland

L & W = Lorentzen & Wettre Maskinaffär Box 49046, 100 Stockholm 49, Amiralsgatan 3

Electrolux = AB Electrolux, S-105 45, Stockholm, Sweden

Lhomargy = Lhomargy machines d'essais 3, rue de Bellevue, 91 Draveil (Essonne), France.

GE = General Electric Co., 159 Madison Avenue, New York, New Jersey [illegible], USA

TMI = Testing Machines Inc., 400 Bayview Avenue, Amityville, New York 11701, Suffolk/Syosset, USA.

PIRA = PIRA, Leatherhead, Surrey, England

[redacted]

Appendix 1

[redacted] of recommended packaging books, handbooks and periodicals

Typefaces

Title	Publisher	Approximate subscription, if known	Language
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

Name	Publisher	Price of subscription per year (in ...)	Language
[illegible] (monthly)	[illegible] Zurich, Switzerland	[illegible]	French and English
Verpackungs-Rundschau	[illegible] Frankfurt [illegible] West Germany	4	German
Modern Materials Handling (monthly)	[illegible] Publishing [illegible] U.S.A.	[illegible]	English
Packaging Review (monthly)	[illegible] London [illegible]	[illegible]	English

Name	Publisher	Number of pages	Price in $	Language
A.S.T.M. Standards (testing methods)	American Society for Testing Materials, [illegible] Race Street, Philadelphia [illegible] U.S.A.	several numbers of books	varies	English
TAPPI Standards (testing methods, specifications, recommended practices)	Technical Association of the Paper and Pulp Industry, New York, U.S.A.	loose-leaf	varies	English
Modern Plastics Encyclopedia year-book 1) (yearly)	McGraw-Hill [illegible] New York, U.S.A.	about 1,000	1)	English
Modern Packaging Encyclopedia 2) (yearly)	[illegible] New York, U.S.A.	about 790	2)	English

1) Included in a subscription on the periodical Modern Plastics

2) Included in a subscription on the periodical Modern Packaging

publisher	number of pages	[illegible] price [illegible]	language
Butterworth & Co. Ltd. 88 Kingsway W.C. London Great Britain	249	17.50	English
Verband der Zellstoff-Industrie Frankfurt a.M., Bundesrepublik	654	[illegible]	German
John Wiley & Sons New York U.S.A.	549		English
Verband Zellstoff - Papier Industrie [illegible] Bundesrepublik	114	free	German
Vlg. Paperback Leipzig, Bundesrepublik	968	[illegible]	German
Blackie and Sons, London G.B.	590	6.75	English
Blackie and Sons London [illegible]	977	11.75	English
Graphic Magazines Inc. London City, New York U.S.A.	274	14.00	English
3 x 3 Corrugated Paper Anthony [illegible] Inc., New York U.S.A.	467	free	English
Edward Arnold Ltd. London, G.B.	420	25.00	English
Eyrolles, 6 boulevard Saint-Germain Paris V, France	551	27.50	French
Reinhold Publishing Corp. New York, U.S.A.	685	[illegible]	English
Elsevier Publishing Comp., Amsterdam The Netherlands	587	[illegible]	English
Compagnee Francaise d'editions 21 Rue de Lisbé, Paris 8e France	585	21.00	French
Vlg.-Verlag Binnenhort Bundesrepublik	522	[illegible]	German
Robinson & Co. Ltd. [illegible] Great Portland Street London W 1. Great Britain	904	[illegible]	English
Business Publications Ltd. London G.B.	171	[illegible]	Dutch
Hestra-Verlag Darmstadt, Bundesrepublik	800	15.00	German
Jan-Verlag Stuttgart Bundesrepublik	960	[illegible]	German
Iliffe Publications Ltd. 42 Dukane High St., London W 6 Great Britain	280	17.50	English
Foster Publishing Corp., Long Beach, California U.S.A.	440	11.50	English
Bell and Sons Ltd., Glasgow, G.B.	190	11.50	English
Butterworth Scientific Publications London, Great Britain		17.50	English
Van Nostrand Reinhold Corp., New York U.S.A.	210	15.00	English

Books

Name	Published in	Author
Modern Packaging Films	1967	Edited by S.H. Pinner
Wellpappen Handbuch (I)	1965	G. Stoebe
Industrial Packaging	1960	Friedman + Kipnees
Verpackungen aus Wellpappe	196[illegible]	Verband Wellpappe + Kartonagen (VWK e.V)
Handbuch der Karton- und Papierverarbeitung	1966	Dietrich Meyer
Fundamentals of Packaging	1962	F.A. Paine
Packaging materials and containers	1967	F.A. Paine
Package Printing	1964	Robert P. Long
Handbook corrugated box manufacturers (3rd edition)	1965	S & S Corrugated Paper Machinery Co., Inc.
The Technology of [illegible]	1965	W. [illegible], B. Hodges and D. [illegible]
Les applications de l'aluminium	1961	Paul [illegible]
Handbook of Adhesives	1962	Irving Skeist
Adhesion and Adhesives	1967	R. Houwink and G. Salomon
Théorie et technique des matières plastiques	1965	René [illegible]
Beanspruchungen, [illegible] und Verpackungen im Transportwesen	1966	Hans H. Berger
Packaging in Glass	1963	B.E. Moody
The aerosol [illegible]	1961	I. [illegible]
Behälter und Paletten	1962	H. [illegible]
Paletten, Kisten und andere Packmittel aus Holz	1960	H. [illegible]
Protective Wrappings	1966	C.R. Oswin and [illegible]
Adhesive materials, their properties and usage	1964	Irving Katz
Paper and board in packaging	1965	[illegible]
Pressurized Packaging (Aerosols)		Herzka & Pickthall
Plastics Film Technology	19[illegible]	W.R.R. Park

Appendix C

List of companies, institutions and bodies, visited and persons met

Companies

Amoy Canning Corp. (H.K.) Ltd.	Mr. Graham Coh. Cheng	Manager
Asia Polyethylene Mfg. & Printing Co. Ltd.	Mr. Ng Sam Mr. Wong	Management
Atlantic Paper Products Ltd.	Mr. Chan Ow	Manager
Atlas Electronics Corp. Ltd.	Mr. K.M. Fung	Manager administration
Ben Line Steamers Co.	Mr. Stuart Peacock	Cargo supervisor
Candy Novelty Works Ltd.	Mr. Chan Kuen	Managing director
Chema Cam Co. H.K. Ltd.	Mr. Alexander C.S. Shung	Manager
	Prof. H.N. Tseng	Manager
Bodwell & Co.	Mr. Mike Muspratt-Williams	Packaging and Design coordinator
Graphic Communication Co.	Mr. H. Steiner	Managing director
Hagemeyer (Far East) Ltd.	Mr. J.B.M. Litmaath	Export manager
Herald Knitwear Ltd.	Mr. Andrew K.S. Yu	Manager
Hip Cheong Loong Can mfg. & Lithographic Pty.	Mr. Leung	Plant manager
Hip Wo Loong	Mr. Ho	Manager
Hoechst Chemical Products Ltd.	Mr. Karel J. Schoemaker	Managing director
Hong Kong Industrial Co. Ltd.	Mr. Willie W.L. Yip	Plant manager
Hong Kong & Kowloon Wharf & Godown Co. Ltd.	Mr. N.M.G. Forsgate	General manager
	Mr. Michael J. Jones	Administration manager
	Mr. Bland	Commercial manager
	Mr. Meadows	Engineering manager
	Mr. Otto M. Shen	Liaison officer
Hong Kong Lilywhite Paper Pty. Co. Ltd.	Mr. Lui	Manager

Hong Kong Soya Bea Products Co. Ltd.	Mr. F.S. Lo	General manager Beverages Division
	Mr. Winston Lo	Manager Quick Foods Division
I.C.I. (Hong Kong) Ltd.	Mr. Cheetlam	General manager
	Mr. Farkuson	Chief Plastics Division
Jan Sin Hee Garment Mgf. Co. Ltd.	Mr. K.[illegible] Tam	Assistant Managing Director
Kader Industria Co. Ltd.	Mr. Dennis H.S. Ting	Director and sub manager
	Mr. Ku	Head Art. Design Dep.
	Mr. Ng	Head business Dep
Kwung Sang (Lung Kee) Pty.	Mr. Wong	Manager
Kaey & Co. Inc. South East Asia Buying Office	Mr. Milan S. Teodopovich	Assistant Manager
Kayer Mfg. Co. Ltd.	Mr. Stanley K. Cheng	Manager Business Development
	Mr. Chan	Staff member
	Mr. M.T. Lam	Designer
Minnesota (3M) Far East Ltd.	Mr. Philips Wong	Sales Manager
	Mr. Peter T.C. Lo	Marketing coordinator
	Mr. Godfrey Lam	Marketing coordinator
	Mr. Louis Lee	Sales representative
Modern Printing Equipment Ltd. (Division of Dürrman-Tetterode NV)	Mr. J. Ockers	Managing director
Perfekta Enterprise Ltd.	Mr. Wing Chai Young	Director
	Mr. Edmund K.S. Young	Technical manager
Peter W. Auge Ltd.	Mr. Peter W. Auge	Managing Director
Promotors Ltd.	Mr. Raymond Lee	Managing director
	Mr. Robert Yung	Director
Qualidam Industrial Co. Ltd.	Mr. Dennis H.S. Ting	Director & Manager
	Mr. Chow	Plant manager

[redacted]	Mr. P.K. Chan	Product Development Manager
[redacted]	Mr. S.T. Pongsan	Director & Development Manager
	Mr. Y.	Product Development
	Mr. [redacted]	Chief [redacted]
[redacted] Polyethylene Products Pty. Ltd.	Mr. [redacted]	Manager
Pang Pan Bee [redacted] Co. Ltd.	Mr. Kampol Pang Chai-Seng	Director
	Mr. Wiwat-Suntip Pang	Assistant Manager
Pranee Electronics Ltd.	Mr. Thomas S.Y. [redacted]	Personnel & Administration Manager
Pure World Electronics Ltd.	Mr. Stephen S.T. Pang	Director Personnel & Industrial Affairs
PSI Pan Dust Corporation	Mr. Chris Y. Lam	Vice President
Ring Hong Wood Pane Pty.	Mr. Yu	Manager
Rinner Co.	Mr. Lam	Engineer
Rinner Food Products Co	Mr. Andy Ong	Managing Director
	Mr. K.H. Lam	Production Manager
[redacted] Pang Paper Industry Pty.	Mr. [redacted]	Production Manager
Tangtaobang Garment Mfg. Co. Ltd.	Mr. Chan	Product Manager

[redacted]

[redacted], Hong Kong, etc.

[redacted]	[redacted]	[redacted]
Department of Commerce and Industry	[redacted]	Director
	[redacted]	Assistant Director
Chinese Manufacturers Association of Hong Kong (CMA)	[redacted]	Senior Vice-President
	[redacted]	Vice-President
	[redacted]	Executive Director
	[redacted]	Senior Executive Secretary
Federation of Hong Kong Industries (H.K.F.I.)	[redacted]	Chairman, H.K.F.I. Chairman, Packaging Council
	[redacted]	Vice-Chairman Packaging Expert
	[redacted]	Executive Director
	[redacted]	Director, Planning & Development Director, Packaging Centre
	[redacted]	Technical Director
Hong Kong Management Association	[redacted]	Executive Director
Hong Kong General Chamber of Commerce	[redacted]	Secretary
Hong Kong Productivity Centre	[redacted]	Head of Operations
Hong Kong Trade Development Council	[redacted]	Executive Director
	[redacted]	Sub-Manager
Chinese Materials Research Department	[redacted]	Group Head
	[redacted]	Senior Tutor, Art Course
Hong Kong Productivity Centre Materials Department	[redacted]	Head, Industrial Design Course
Hong Kong Technical College	[redacted]	Acting Head, Design Department
Chinese Child Technical Institute	[redacted]	Principal

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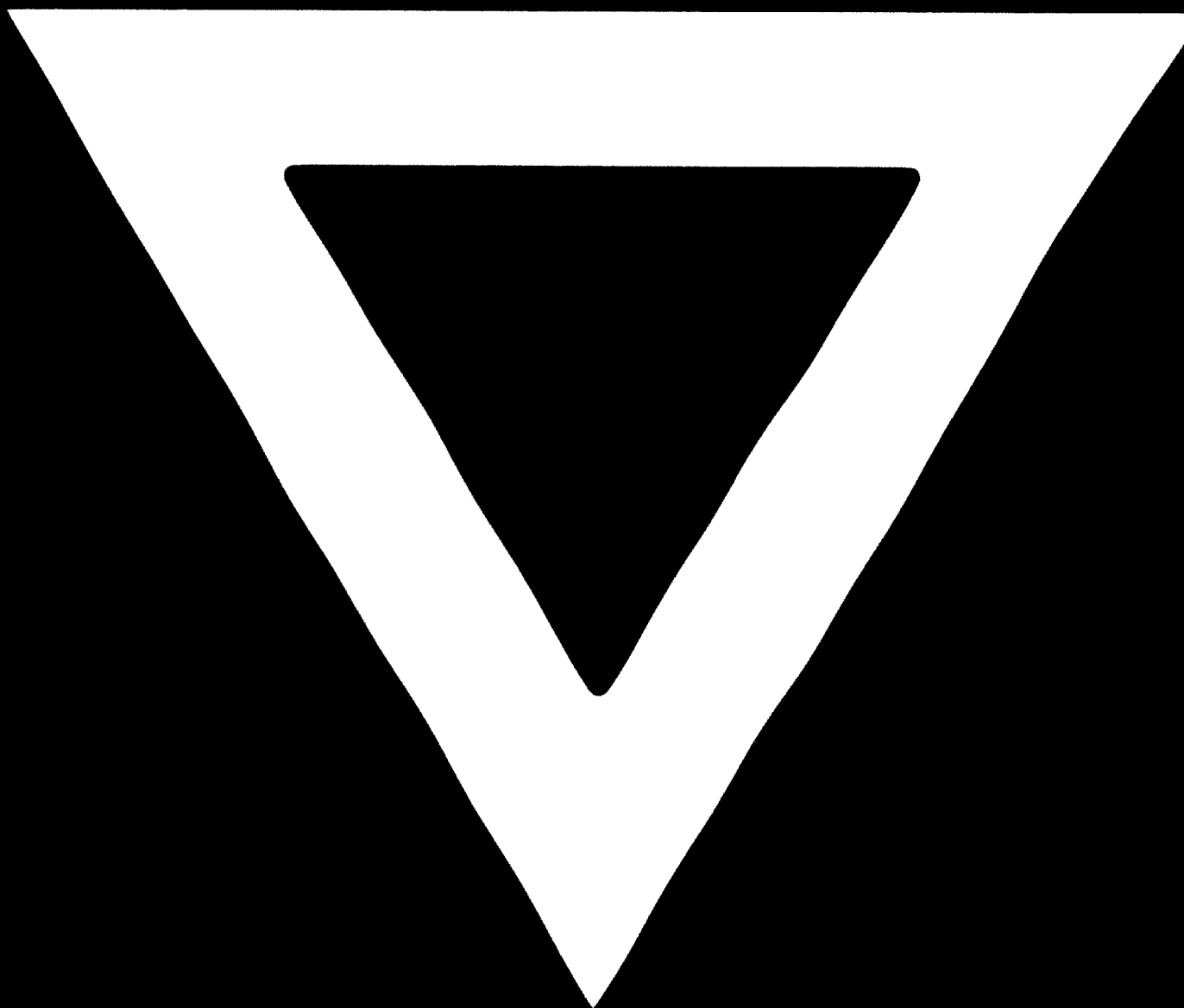

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