

CONTENTS

Preface	v
Acknowledgement	vi
Official Opening and Keynote Speech	vii
Her Royal Highness Princess Maha Chakri Sirindhorn	viii
Special Reports	
Report of Food Conference '88	
Dr. Sanga Sabhasri, Permanent Secretary of Science, Technology and Energy	xv
Remarks of Food Conference '88	
Prachuab Chaiyasan, Minister of Science Technology and Energy	xvi
Memorial Lecture: Prof. Amara Bhumiratana	xvii
"Food Research and Developing Countries"	
<i>J. F. Kefford</i>	
Plenary Lecture: Agriculture Science and Technology	xxiv
Research in EC and Developing Countries	
<i>R. Gallimore</i>	
ADVANCED IN FOOD PROCESSING	
Plenary: Modern Food Processing in the Interest of Industrial Development	1
<i>B. Krol</i>	
A Study on the Operation of a Simply Designed Continuous Extruder for Corn Chips	
Production	5
<i>R. Pongsawatmanit</i>	
A Study on the Utilization of Ducks into Some Processed Products (Philippines)	9
<i>P.L. Madlansacay et al</i>	
An Overview of Studies on the Development of a Peanut-Based Imitation Cheese spread	
and Acceptance by Filipino Consumers	15
<i>A.V. A. Resurreccion & B.L. Santos</i>	
Application of Protein Hydrolysate in Fish Crackers ("Keropok")	27
<i>Yu S.Y. & Tan L.K.</i>	
Aqueous Ezymatic Extraction of Oil from Seeds	30
<i>H.S. Olsen</i>	

Biochemical Characteristics of Limes and Limes Products.	38
<i>Asiah M. Zain & Norliah Abdullah</i>	
Bread Without Wheat	42
<i>M. Satin</i>	
Decolourisation of Sugar Syrups Using a Macroporous Anion Exchanger	48
<i>W.K. Teo & M. Yap</i>	
Development and Physical Characterization of Artificial Coconut Milk (Santan) Powder	54
<i>C.C. Seow & K.M. Leong</i>	
Development of Processes for Maximum Utilization of Goat Products and By-products	61
L.S.C. Rivera et al	
Effect of Added Water, Sodium Erythorbate and Storage Time on the Functional Properties of Prerigor Beef Preblend	69
<i>Abdullah Abu-Bakar, James O'Reagan & John A. Carpenter</i>	
Effect of Antioxidant (TBHQ/CA) on the Oxidative Stability of Palm Oil	76
<i>C.L. Chong & A.S.H. Ong</i>	
Effect of Benomyl and Sulfur Dioxide on Storage Life of Fresh Longan	81
Onnop Wara-Aswapati et al	
Effect of Deaeration, Nitrogen Sparging, Exhausting and Heat Treatment Time on the Storage Quality of Banana Puree with Pineapple Juice	86
<i>Soleha Ishak et al</i>	
Effect of Natural Antioxidant on Cooked Stored Mackerel	92
<i>Rokiah Mohd. Yusof and Norisah Abdul Rahman</i>	
Establishment of a Thermal Process for a Traditional Local Food Product (Bottled Macapuno in Syrup)	98
<i>E.F. Alabastro et al</i>	
Evaluation of Soy Protein, Mineral and Phytate Contents in Hamburgers in Malaysia	103
<i>Ng Kim Soon, Aminah Abdullah & Abdul Salam Babji</i>	
Expansion, Oil Absorption, Elasticity and Crunchiness of Keropok (Fried Crisps) in Relation to the Physico-Chemical Nature of Starch Flours	108
<i>Suhaila Mohamed, Norakiah Abdullah & Mangayar Karasi Muthu</i>	
Extrusion Cooking of Wet Protein Materials	114
Akinori Noguchi , Seiichiro Isobe & Kunihiko Uemura	
Fish Noodles	121
<i>Yu Swee Yean</i>	

Hydrolyzation of Mung Bean Protein Waste from Vermicelli Industry for Use in Flavour Sauce	126
<i>Orasa Suriyaphan & Patcharee Pankun</i>	
Improvement of Oil Loss and Solvent Loss of Vegetable Oil Industries by Extrusion Combined with Conventional Process	132
<i>Raywatchai Phubprasit</i>	
Inactivation of Lipoxygenase in Whole Soybeans by pH Adjustment	137
<i>Yaakob B. Che Man, Lun-Shin Wei & Alvin I. Nelson</i>	
Interesterification of Olive Oil by Immobilized Lipase	141
<i>A. Telefoncu</i>	
Kinetics of Inactivation of Soybean Lipoxygenase by Acid	146
<i>B. Ali Asbi, L. S. Wei & M. P. Steinberg</i>	
New Low Temperature Preservation Methods	150
<i>C. Dennis</i>	
New Technologies Opens the Passage into New Usage of Coconut Milk Products	157
<i>Gwee Choon Nghee</i>	
Peanut Spread with Fruit Powder as an Ingredient	163
<i>Vichai Haruthaithanasan, P. Chompreeda & C. Oupadissakoon</i>	
Physical, Chemical and Sensory Characteristics of Extruded Rice-Based Snack Formulation	167
<i>G. Pasin et al</i>	
Processing of Citrus Fruit	175
<i>L.E. Gray</i>	
Production Techniques: Problems Encountered in Plant Audits Worldwide	182
<i>D. Hoff</i>	
Properties of Kiwifruit Related to Processing	190
<i>Weihua Wu & B. S. Luh</i>	
Quality Development of Dried Squid	196
<i>Wunwiboon Garnjanagoonchorn & Saiyai Lertsupakul</i>	
Quality of Raw and Processed Ginger	201
<i>A.M. Zain , M. Fauzi & Puziah Aziz</i>	
Recent Topics on Enzyme Utilization for Food Processing in Japan	205
<i>T. Nobuzo</i>	
Reduction of Halogenated Hydrocarbons in Meat, Fish and Poultry	210
<i>Mary E. Zabik & Matthew J. Zabik</i>	

Sago Flour Substitution in Bread Making Process	216
<i>Soefjan Tsauri & Roy H. Trisnamurti</i>	
Some Aspects of the Energy Requirements in Food Processing	225
<i>T.S. Matuszek</i>	
Some Characteristics of Thermo-Processed Wheat Gluten	229
<i>Yusaku Fujio</i>	
Stability of Intermediate Moisture Food (IMF) Product as Affected by Types and Levels of Humectants and Fungistatic Agents	234
<i>E.F. Alabastro et al</i>	
The Production of Desiccated Coconut	245
<i>H.R.. Lovell & D. G. Hill</i>	
The Properties of Sweet Potato (<i>Ipomoea batatas</i>) starches Under simulated Processing Conditions	249
<i>H. Osman et al</i>	
UMAMI: Studies on Niboshi (Dried Sardine) Soup Stock	255
<i>Atsuko Shimada</i>	
Utilization of Manioc Starch for Bread-Making	260
<i>Nguyen Xich Lien & Dao van Hien</i>	
Vitaminin Stability in Extrusion Products	262
<i>M. Schlude</i>	
Yaku Phenomenon of Somen (Quality Improvement of Fine Noodle Caused by the Storage Through a Hot Rainy Season)	269
<i>Ritsuko Niihara</i>	
BIOTECHNOLOGY	
A Study of the Acceleration of Fish Sauce Production Using Enzymes	275
<i>R.I.W. Greig & D.C . Estrel</i>	
Advances in Raw Material Cooking, Koji Making & Mash Fermentation in Shoyu Manufacture	282
<i>Tamotsu Yokotsuka</i>	
Biotechnology in the Dairy Industry	295
<i>Ir. J.J. Mol</i>	
Cassava Petiole-leaf Meal as alternate for Copra Meal in Broiler and Hog Rations	300
<i>J.G. Bautista III et al</i>	

Effect of <i>Aspergillus Niger</i> on Aflatoxin Production in Ground Corn	307
Dusanee Thanaboripat & Sirima Hotrakoon	
Effect of Fermentation on Nutritive Values of Glutinous-rice and Legume Mixtures	311
Parichart Boonpikun & Vanchai Vanasant	
Enzymetic Modification of Soybean Phosphatides (Lecithins)	317
Wanna Tungjaroenchai & Doz Dr. E Berghofer	
Fish Sauce Fermentation by Using Microbial Inoculation and Recycling System	320
Saipin Chaiyanan et al	
Formation of Gluco-Disaccharides During Fermentation of Wines	326
Kotoyoshi Nakanishi & Koki Yokotsuka	
Lactic Fermentation as a Low-Cost Method of Tropical Food Preservation	331
R.D. Cooke et al	
Manufacture and Characteristics of Ymer Produced with Locally Collected Cultures	336
Borwonsak Leenanon, Suwanna Subhimaros & Lavanaya Kraidej	
Preparation of Immobilized Rennin for Cheese Making I: Preparations and Enzymic Properties of Rennin Immobilized on Sand	341
P. Anprung, S. Chuengsaengsatyaporn & C. Thunpithayakul	
Preparation of Immobilized Rennin for Cheese Making II: Application of Rennin Immobilized on Sand to Cheddar Cheese Making	347
P. Anprung, S. Chuengsaengsatyaporn & C. Thunpithayakul	
Production of High Fructose Glucose Syrup from Indigenous Starches: Prospects and Constraints	354
C.N. Chong et al	
Production of Lactic Acid Bacterial Inoculum for Fermented Hen Manure as Animal Feed Supplement	361
Saipin Chaiyanan, Adisak Taneepun & Apichai Wongprayuk	
Protein Enrichment of Cassava by Solid-Substrate Fermentation	365
A. Noomhorm, S.G. Hangatileke & M. B. Bautista	
Quality Comparison of Wines Produced from New Varieties of Grape Planted on Kampangsang Campus	372
Pradit Karuwanna et al	
Repeated Batch Production of L-Phenylalanine from Phenylpyruvate and NH ₄ Cl by Immobilized Cells of <i>Nocardia Opaca</i> Under Hydrogen High Pressure	377
Anny Sulaswatty, Tadashi Matsunaga & Michio Higashijima	

Stability and Application of Monascus Pigments Produced by Cassava Fermentation Busaba Yongsmith et al	384
Study on Citric Acid Production from Cassava Starch Wachara Kaitsermsuk & Aporn Wongwicharn	389
Study on of Cashew Vinegar A.T. Karossi, A. S. Pramudi & O. Suwaryono	394
The Effects of Initial pH in the Production of Extracellular Glucoamylase by Rhizopus oryzae Using Metroxylon Sago Medium A. T. Karossi et al	396
Types and Numbers of Bacteria in a Thai Beef Sausage (Mum) Fermentation Sukjai Somathiti & Yawaluk Surapunpisid	399
COMODITIES UTILIZATION	
Advanced Processing of Rice Bran and Corn Oils Yasuhiko Takeshita	403
Characterization of Navy, Pinto and Black Bean Starches Naruemon Srisuma et al	409
Palm Oil - an Excellent Frying Medium Teah Yau Kun & A. S. H. Ong	417
Physico-Chemical Characteristics and Microbial Profile of Sapota Var. Jantung Mohamad Nordin Bin Abdul-Karim & Fatimah Abu-Baker	421
Sorghum Vermicelli (I) Siwaporn Siwawej & Prayuth Sawanchewakorn	425
Supercritical Gas Extraction and Fractionation of Edible Oils and Spices D .A. Evans & Uy Nguyen	430
VarietaDifferences in the Quality of Processed Rice Products : A Review B.O. Juliano, C. M. Perez & C. P. Villareal	437
FOOD ANALYSIS	
Determiration of Food Grain Moisture Content by Microwave Heatiing Vilas Salokhe	447
Determiration of Oxvtetracvcline Residue in Oranges Soemanto Imamkhasani	454

L-ascorbate 2-Polyphosphate: A New Stable form of Vitamin C	459
M.L. Liao & P.A. Seib	
Separation of Cocoa Peptides by High Performance Liquid Chromatography	463
Mohd. Nordin Som Mohd. & J.W. Gramshaw	
Some Properties of Oil, Toxic Substances in Thai Cottonseed Oil and Detoxification	470
Prateungsri Sinchaisri & Lolita Meksongsee	
The Determination of Carboxylic Acids, Saccharose and Ethanol of Fermentation Broth	
Using Suppression Reversed Phase HPLC	475
J. Kantasubrata & A.T. Karossi	
The Use of a Reverse Phase Chromatographic System for the Separation of Carotenes	
And Vitamin A from some Foods and Blood Serum	479
K.L. Simpson	
Volatile constituents of Fresh and Canned Longan (Euphorial Longanal Lam. Cv. Edeng)	484
Griangsak Chairote	
Water activity and states the Current Progress in Relation to Food functionality and Quality	
Control	488
Pavinee Chinachoti	