

TABLE OF CONTENTS

	Page
WELCOME MESSAGE	
<i>Academician Perla D. Santos Ocampo</i>	177
Philippine Agriculture 2020 Executive Summary	181
Vision and Aspirations for Philippine Agriculture	
<i>Arthur C. Yap</i>	207
Philippine Agriculture 2020:	
<i>Emil Q. Javier</i>	213
Enabling Environment for PA 2020	
<i>Donato B. Antiporda</i>	223
Transaction Costs of Exchange of Assets and Property Rights	
<i>Ramon L. Clarete</i>	227
Higher Productivity, Food Security and Agribusiness	
<i>Manuel Q. Lim Jr.</i>	231
The Nueva Viscaya Experience	
<i>Rodolfo Q. Agbayani</i>	239
A Strategy for Poverty Alleviation, Food Security, Global Competitiveness, Sustainability, Justice and Peace	
OPEN FORUM	243
Swine, Poultry and Corn Industry and Pasture Ruminant Industry Clusters	
<i>Javier P. Mateo</i>	247

	Page
The Fisheries and Aquatic Resources <i>Felix R. Gonzales</i>	251
Strengthening Genetic Resources and Entrepreneurship <i>Noel G. Mamicpic</i>	255
Forest-based Industries <i>Florentino O. Tesoro</i>	259
Highlights of Agro-Industrial Cluster Analyses: OPEN FORUM	263
Roads, Ports, Irrigation and Mechanization <i>Proceso T. Domingo</i>	265
Agricultural Engineering Curriculum, Mechanization and Standards <i>George Q. Canapi</i>	269
Increasing Productivity by Reducing Postharvest Losses <i>Ricardo L. Cachuela</i>	271
Linking the Production System to the Market <i>Ceferino L. Follasco</i>	273
Infrastructure and Support Services for Philippine Agriculture 2020 OPEN FORUM	279
Amending the Land Reform Law <i>Raul V. Fabella</i>	283

	Page
“People” Characteristics of Philippine Agriculture <i>Gelia T. Castillo</i>	289
The Enabling Strategies <i>Jose M. Yorobe Jr.</i>	295
Social Dimensions of Philippine Agriculture 2020 OPEN FORUM	299
Food and Nutrition Security <i>Rodolfo F. Florentino</i>	301
Modern Biotechnology and Other Innovations <i>Nina Gloriani Barzaga</i>	305
Health and Nutrition Issues in Philippine Agriculture 2020 OPEN FORUM	309
Environmental Changes and Consequences of Agricultural Practices <i>William G. Padolina</i>	313
Strategic Plans for Resource Development <i>Angel C. Alcala</i>	317
Asset and Policy Reform, Entrepreneurship and Sustainable Development <i>Adolfo V. Revilla</i>	321
Philippine Agriculture and the Environment OPEN FORUM	331

	Page
Four Propositions for an ICT Framework <i>Eliseo R. Ponce</i>	335
The National Information Network of the Department of Agriculture <i>Roberto G. Villa</i>	339
ICT—The Enabler <i>William T. Torres</i>	343
Information and Communications Technology for Philippine Agriculture 2020 OPEN FORUM	347