## Table of Contents

### Foreword

### PTC '83 Conference Organization and Sponsors

### Session summaries of Days: Monday, Tuesday and Wednesday

### Sunday, January 16, 1983

**Pacific Telecommunications Conference**

- Opening Plenary Session

### Monday, January 17, 1983

**Local and National Development Needs: Infrastructures, Satellites, and Terrestrial Facilities**

- Plenary Session

### Business Applications/User Needs for Telecommunications

### Communications Infrastructure: Social/Political/Economic Aspects
Satellite and Terrestrial Systems

44 Space Communications in Japan
Tadahisa Mori

51 Fighting “Isolation Fever”: An Inexpensive Voice-Data Satellite Service for Remote Locations
E.A. Piekaar

55 Telephones for a Rural People—Vanuatu
Roy G. Spratt, William A. Southwood

65 Fiber Optics in Japan
Shuji Ueda

74 Meteor Burst Communications Systems
George E. Westwater

80 Panel Discussion: “Business Applications/User Needs for Telecommunications” (notes)

81 Panel Discussion: “Communications Infrastructure Social/Political/Economic Aspects” (notes)

82 Panel Discussion: “Satellite and Terrestrial Systems” (notes)

83 Roundtable Discussion: “Local and National Issues” (notes)

Tuesday, January 18, 1983
Pacific Regional and International Infrastructure: Satellite and Surface Systems

84 Business Requirements/User Needs in the Pacific

85

86 International Telecommunications Services and the Business User
T. Patrick French

89 Satellite Communications for the Pacific Islands: An Alternative to Isolation
Jane N. Hurd

Institutional Infrastructures and Constraints in the Pacific

92

93 Telematic Infrastructures for the Developing Pacific
Neil Dias Karunaratne

99 Satellite Communications for Public Service in the Pacific Basin: Policy, Institutional and Infrastructure Issues
Arthur L. Levine

Pacific Satellite/Terrestrial Systems

104

105 Parametric Approach to Thin-Route Earth Station Requirements
Raymond D. Jennings, Peter M. McManamon

112 System Configurations and Applications in Domestic/Regional Satellite Communications
Kenji Yoda, Yuhei Ugai
Luncheon Keynote Address: "World Communications Year (WCY), 1983, Development of Communication Infrastructure"
Richard E. Butler

Panel Discussion: "Business Requirements/User Needs in the Pacific" (notes)

Panel Discussion: "Institutional Infrastructures and Constraints in the Pacific" (notes)

Panel Discussion: "Pacific Satellite and Terrestrial Systems" (notes)

Roundtable Discussion: "Regional and International Issues" (notes)

Wednesday, January 19, 1983
International Systems and Problems
Geostationary Arc: Who Wants It?

Economics of Spectrum Allocation
William H. Melody

Intelsat: The Geosynchronous Orbital Arc and the Third World
Joseph N. Pelton

Transborder Data Flow

The Economics of Transborder Data Flows
Meheroo Jussawalla, Chee-wah Cheah

Elements of International Communications Policy
Kenneth W. Leeson

Information Technology Transfer

Computerization and the Transformation of Society
Herbert S. Dordick

How Appropriate is Appropriate Information Technology?
Oswald H. Ganley

Information Technology Transfer: The Philippines
Florangel Rosario-Braid, Emma J. Fabian

Evolution of Telecommunications Policy in Industrialized Pacific-Basin Countries

Australian Communications Policy
Tony Keulemans

Canada's DBS Woes: Culture or Profit
Thomas L. McPhail

A Critical Approach to U.S. Communications Policy
Deanna C. Robinson

The Evolution of Telecommunications Policy-Making Structures and Processes in New Zealand during the Period 1960-1978
Graham A. Wagner
<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>207</td>
<td>Formulating a Communications Strategy</td>
<td>Ian G. Dewis</td>
</tr>
<tr>
<td>208</td>
<td><strong>Trends in International Standardization</strong></td>
<td>Edward Lohse</td>
</tr>
<tr>
<td>212</td>
<td><strong>Network Digital Standards</strong></td>
<td>B.J. Murdock</td>
</tr>
<tr>
<td>235</td>
<td>Videotex Service in Japan CAPTAIN System</td>
<td>Mitsunori Kawasaki</td>
</tr>
<tr>
<td>236</td>
<td><strong>QUICKSCAN Electronic Publishing—A Practical Broadband Information System</strong></td>
<td>George Van Valkenburg</td>
</tr>
<tr>
<td>242</td>
<td>From the Information Society to the Communication Society</td>
<td>Jean P. Voge</td>
</tr>
<tr>
<td>245</td>
<td><strong>Roundtable Discussion: “Pacific Telecommunication Network Development”</strong></td>
<td>(notes)</td>
</tr>
<tr>
<td>250</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>