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International  
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Vol. 1



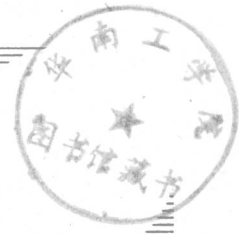
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# INTERNATIONAL CONFERENCE ON COMMUNICATIONS 1985

Palmer House • Chicago, Illinois • June 23-26, 1985



"COMMUNICATIONS - FACILITATING THE KNOWLEDGE REVOLUTION"

## Conference Record Volume 1 of 3

Volume	Day	Papers	Pages
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# Greetings from the Chairman...

It is my pleasure to welcome you, my friends and colleagues, to ICC '85. The conference committee has been busy arranging a timely and informative technical program and a full spectrum of social activities.

In a time of rapid technical innovation and radical restructuring of public telecommunications, ICC '85 not only has the needed relevant technical papers, but outstanding speakers who will give unique and perceptive views of the progress in our industry since divestiture. Government, telephone operating companies and large business users' views will be presented at the plenary session, luncheon, banquet and a special panel discussion/lunch.

A full social program is planned, highlighted by our exclusive use of the famous Museum of Science and Industry Monday evening. A special set of children's tours are being offered for the first time to entertain our younger attendees and their families.

With ICC '85 located in the heart of downtown Chicago at the Palmer House, you will have an excellent opportunity to become acquainted with the museums, landmarks, lakeshore, shops and all the attractions of this vital and unique city of mid-America.

The committee joins me in the hope that you will find ICC '85 to be rewarding, enjoyable and memorable.



*Richard J. Jaeger, Jr.*

Richard J. Jaeger, Jr.

## ICC '85 Technical Program

Technological advances, political decisions and sophisticated end users are causing large impact on the "information age" throughout the world. The end users (large corporations with high thruput demands and the home PC user) are demanding more cost-effective, high quality data transmission capabilities.

This pent-up demand is leading suppliers to provide unique technological solutions in a cost-effective way. A major issue facing our industry is to provide end user products and transmission media which are compatible as technology and user requirements advance.

I believe you will find that these present and future issues are being addressed through the tutorials on Local Area Networks and Post Divestiture Switching Standards. In addition, a balanced technical program has been put together which addresses topics such as quality issues, transmission media techniques and data theory.

The Technical Program Committee found the submitted papers to be most informative and of high quality. In speaking for the other members of the committee, I feel privileged to have been a part of ICC '85.



*D. H. Carbaugh*

D. H. Carbaugh

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The young people in ROTC uniforms who are working with the ICC '85 Committees are from Manley High School on Chicago's West Side. The committees are grateful for their kind assistance.

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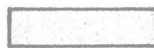
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# Technical Program

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<p><b>MONDAY JUNE 24</b> 8:00 AM - 8:50 AM</p>	<p><b>Plenary Session</b> Grand Ballroom</p>			
<p><b>MONDAY JUNE 24</b> 9:00 AM - 12 Noon</p>	<p><b>1</b> <i>Red Lacquer</i> NETWORKING WITH OPTICAL FIBER SYSTEMS</p>	<p><b>2</b> <i>Private Dining Room-17</i> IMAGE PROCESSING</p>	<p><b>3</b> <i>Parlor-F</i> MULTIPLE RANDOM ACCESS COMMUNICATIONS SYSTEMS</p>	<p><b>4</b> <i>Crystal</i> QUALITY MANAGEMENT FOR QUALITY IMPROVEMENT</p>
<p><b>MONDAY JUNE 24</b> 2:00 PM - 5:00 PM</p>	<p><b>9</b> <i>Red Lacquer</i> ISDN DESIGN AND IMPLEMENTATION</p>	<p><b>10</b> <i>PDR-17</i> THEORETICAL ASPECTS OF LOCAL AREA NETWORKS</p>	<p><b>11</b> <i>State Ballroom</i> PACKET NETWORKS PERFORMANCE</p>	<p><b>12</b> <i>Parlor-F</i> NETWORK QUALITY ASSURANCE</p>
<p><b>TUESDAY JUNE 25</b> 9:00 AM - 12 Noon</p>	<p><b>17</b> <i>State Ballroom</i> OPTICAL FIBER SUBSCRIBER LOOP SYSTEMS  PERFORMANCE ANALYSIS OF OPTICAL FIBER SYSTEMS</p>	<p><b>18</b> <i>Parlor-F</i> MODULATION, DETECTION AND SYNCHRONIZATION</p>	<p><b>19</b> <i>PDR-17</i> USAGE OF OSI STANDARDS</p>	<p><b>20</b> <i>Crystal</i> SWITCHING SYSTEM DESIGN AND RELIABILITY</p>
<p><b>TUESDAY JUNE 25</b> 12:15 PM-1:45 PM</p>	<p><b>Communications Users</b> <i>Red</i></p>			
<p><b>TUESDAY JUNE 25</b> 2:00 PM - 5:00 PM</p>	<p><b>25</b> <i>Red Lacquer</i> THE IMPACT OF DIVESTITURE ON TELECOMMUNICATIONS SOFTWARE</p>	<p><b>26</b> <i>Parlor-F</i> SPREAD SPECTRUM</p>	<p><b>27</b> <i>Monroe</i> DISTRIBUTED COMMUNICATION SYSTEMS</p>	<p><b>28</b> <i>Crystal</i> QUALITY MANAGEMENT FOR DESIGN IMPROVEMENT</p>
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<p><b>WEDNESDAY JUNE 26</b> 2:00 PM - 5:00 PM</p>	<p><b>41</b> <i>Wabash</i> LAND MOBILE RADIO ADVANCES IN SINGLE FREQUENCY LASERS AND THEIR APPLICATIONS</p>	<p><b>42</b> <i>State Ballroom</i> NEW DIRECTIONS IN SWITCHING OPERATIONS</p>	<p><b>43</b> <i>Parlor-A</i> FUNDAMENTAL ISSUES IN COMPUTER COMMUNICATIONS</p>	<p><b>44</b> <i>Parlor-H</i> DIGITAL FACSIMILE TECHNOLOGIES AND SERVICES  ADVANCES IN COMMUNICATION TERMINALS</p>



Communications in the Post Divestiture Era



Alternative Networks: Technology, Architecture and Services

} Mini-themes

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*Laquer*

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 Chairman: E. J. Delp  
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