



DENVER, COLORADO • AUGUST 2 THROUGH AUGUST 7, 1970



Carlos H. Elmer
Congress Chairman

Papers Program

The titles and authors of the more than 100 papers for the 9th Congress Program listed on the next pages were chosen out of the more than 170 papers submitted to this, the first International Congress on High-Speed Photography in this country in a decade. Congress Chairman **Carlos H. Elmer**, Papers Chairman **Robert D. Shoberg**, and Papers Associate Chairman and Editorial Chairman **William G. Hyzer** have had to consider many factors before coming to decisions resulting in this Congress program.

Other members of the 9th International Congress on High-Speed Photography Liaison Committee are **Rodger J. Ross**, who is also the Society's Editorial Vice-President; **Dr. Deane R. White**, who is the Society's President; and **E. B. McGreal**, who is the Society's Conference Vice-President. **John H. Waddell** is Associate Chairman and Chairman of



John H. Waddell
Chairman
Committee of Honor

the Committee of Honor. Deputy Chairman is **Trygve Ramqvist**, who was Chairman of the 8th Congress; Arrangements Chairman for the Congress is **John I. Newell**.

Preprints

Preprints of all Congress papers, including abstracts in French, German and English, will be given to all Congress delegates. Since there is such a large program, each presentation will consist of a short summary of the work plus any new information since the submission of the manuscript, films or slides and discussion. Therefore, each delegate should become familiar with each paper by reading the preprints beforehand.

Proceedings

The **Proceedings** of the 9th Congress Program, including all papers, in English as well as in the language submitted, the abstracts in three languages, the discussion following each paper, and the content of panel discussions will be published as soon as possible following the Congress. To accomplish this, authors and those who participate in discussion following each paper are asked to meet the following morning to edit the transcription of the discussion.

Other Activities

Informal social activities will be organized for delegates and their families beginning on Saturday, August 1. Some

of these are sightseeing tours of downtown Denver and nearby areas, cocktail parties and dinners on Sunday and Thursday. For accompanying persons, the mining town of Central City will be visited on Monday. There will be a luncheon on Tuesday followed by a style show and a playlet by the 3rd Eye theatrical group. For all Congress attendees, the afternoon of Wednesday, August 5, will be spent at Colorado Springs. Lunch will be served at the Flying W Ranch near the Garden of the Gods. There will be a late afternoon buffet at the Broadmoor Hotel, which also features the Broadmoor Ice Arena. The next stop will be the U.S. Air Force Academy, where the modern Chapel can be seen. On Thursday, for accompanying persons, there will be a luncheon and shopping at "Gay 90's style" Larimer Square. Various social events will take place on Friday evening for everyone.

Equipment Exhibit

Exhibit Chairman **Willard H. Ebeling**, Perfect Film Laboratories, Colorado Springs, Colorado, has brought together many of the leading companies manufacturing and supplying equipment in the instrumentation, high-speed photographic, photoscientific, and related fields to participate in the 9th Congress Equipment Exhibit. In addition it is expected that there will be participation by federal government organizations, for example the Naval Ordnance Laboratory.

The list of companies exhibiting and short descriptions of their products follow the papers program listings. The Exhibit will be open Sunday through Thursday Congress week.

Advance Registration

Register early for the 9th International Congress to save time when arriving. The Application for Participation which was sent with the Final Announcement Brochure should be used. Additional applications are available from SMPTE Headquarters. Badges and tickets will be waiting for registrants at the Registration Desk.

Registration Rates:
 Delegate — \$90 Accompanying Person — \$45
 One-Day Registration — \$20

Registration includes exhibitors' reception and opening banquet August 2, excursion to Colorado Springs August 5 and Farewell Dinner August 6. For delegates, it also includes preprints of all papers in a briefcase. For accompanying persons, it also includes luncheons and excursions outlined here. One-day registration does not include preprints or additional activities.

Hotel Rates and Reservations

The postal card which was sent to interested parties (in the U.S.) along with the Final Announcement booklet should be used for accommodations at the Denver Hilton

Hotel. Those who do not use the postal card when registering at the Hilton should note that reservations are for the SMPTE 9th Congress. These should be addressed to the Reservation Manager, The Denver Hilton, 1550 Court Place, Denver, Colorado 80202.

All rooms have TV, radio, air conditioning, and many have a view of the Rocky Mountains. Garage parking is available below the hotel. There is no charge for children, regardless of age, when they occupy the same room as their parents. For each additional person in a twin or double bedroom, the extra charge is \$5.00 per person.

Hotel Rates

Singles — \$14 to \$22 Doubles — \$18 to \$28
 Twins — \$18 to \$28
 Suites — Parlor and one bedroom — \$40 to \$48
 Parlor and two bedrooms — \$62 to \$85

Program Outline

Saturday 1200-1700 Registration
Sunday 1000-1700 Registration
 1200-1700 Opening of Exhibits
 1800-1900 Pre-Banquet Reception
 1900-2400 Banquet
 Awards Presentation
 Guest Speaker: Harold E. Edgerton
Monday 0800-1700 Registration
 0900-1200 Educational Seminar, Panel Discussion
 1400-2000 Exhibit Hours

1400-1700 Holography and Image-Dissection Cameras
 2000-2230 Film Showings I
Tuesday 0800-1700 Registration
 1000-1700 Exhibit Hours
 0900-1200 Lasers
 1400-1700 Rotating-Mirror and Streak Cameras
 2000-2230 Film Showings II
Wednesday 0800-1200 Registration
 0830-1130 Exhibit Hours
 0830-1130 Image Converters
 1200-2100 Excursion to Colorado Springs
Thursday 0800-1700 Registration
 1000-1700 Exhibit Hours
 0900-1200 Light Sources, X-Rays
 1400-1700 Applications I
 1900-2000 Pre-Dinner Reception
 2000-2400 Dinner Dance
Friday 0800-1700 Registration
 0900-1700 Applications II
 1400-1700 Applications III

Program

This Program is the scheduling of papers within the sessions. It is as accurate and complete as possible. Before the Congress, however, papers may be removed or rearranged into other sessions. The sessions are firm. Questions about specific papers or sessions should be addressed to Society Headquarters, Att: 9th Congress — Elaine Itzkowitz, (212) 867-5410; Congress Chairman Carlos H. Elmer, P.O. Box 875, Scottsdale, Arizona 85252, (602) 948-2867; or Program Chairman Robert D. Shoberg, 1167 Hollenbeck Rd., Sunnyvale, CA 94087 (408) 739-4387. The Final Program will be available ten days before the Congress from Society Headquarters, and during Congress week at the Denver Hilton Hotel.

SATURDAY—AUGUST 1
1200-1700 REGISTRATION

SUNDAY—AUGUST 2
1000-1700 REGISTRATION
1200-1700 GRAND OPENING OF EXHIBITS
1800-1900 PRE-BANQUET RECEPTION, COCKTAIL PARTY
1900 CONGRESS OPENING BANQUET

Introduction of Distinguished Guests
 Welcoming Remarks by DEANE R. WHITE, SMPTE President
 Awarding of the E. I. du Pont Gold Medal
 Presentation of SPIE award by EUGENE B. TURNER, SPIE President

Guest Speech: Experiences With High-Speed Photography
 HAROLD E. EDGERTON, EG & G, Boston

MONDAY—AUGUST 3
0800-1700 REGISTRATION
1400-2000 EXHIBIT HOURS
0900-1200 OPENING OF TECHNICAL SESSIONS

Recognition of International Committee for High-Speed Congresses
 CARLOS H. ELMER, 9th Congress Chairman
 Premier showing of motion picture on high-speed photographic applications in industry, introduced by 9th Congress Editorial Chairman WILLIAM G. HYZER and Tech Films President WILLIAM J. McCREA