



The Hydrogeologist

NEWSLETTER OF THE HYDROGEOLOGY DIVISION OF THE GEOLOGICAL SOCIETY OF AMERICA, SEPTEMBER 1980

1980 MEINZER AWARD GOES TO RICHARD L. COOLEY

The 1980 Meinzer Award Panel, consisting of Eugene Simpson (Chairman), Martin Mifflin, Philip Cohen, Irwin Remson, and James J. Geraghty, has named Richard L. Cooley the recipient of the 1980 Meinzer Award for his paper, "A Method of Estimating Parameters and Assessing Reliability for Models of Steady State Groundwater Flow," *Water Resources Research*, v. 13, no. 2, p. 318-324, 1977. The award will be presented at the Division's luncheon-business meeting on Tuesday, November 18, 1980, 1200-1500 in the Grand Ballroom (Center), Marriott Hotel, Atlanta, Georgia.

V. T. STRINGFIELD AND J. F. POLAND TO BE HONORED AT ATLANTA

Paul Seaber, Program Chairman, has organized an outstanding program for the 1980 Annual Meeting, Atlanta, Georgia, November 17-20, 1980. Highlight of the meeting will be the symposiums in honor of two of the Division's most distinguished hydrogeologists, Victor T. Stringfield and Joseph F. Poland. Seaber's efforts have resulted in the fullest, and possibly best, Division-sponsored program ever put together. His summary of events follows:

Saturday, November 15 (NOTE: Change of date)

Field Trip: *Geohydrology of the Chattahoochee River*. H. Gill, C. Cressler, R. Faye, M. W. Higgins, USGS, Atlanta, GA; and R. Cherry, USGS, Columbia, SC.

The Chattahoochee River near Atlanta, Georgia, flows parallel to the Brevard Fault Zone and then cuts across the geological structure. Flow in this reach of the river is dynamic with rapid changes in stage and discharge resulting from hydropower production at Buford Dam. The 6½-mile-raft excursion on the river will highlight geology, hydrology, and good food. Limit: 100; cost: \$59. Departs 7:30 a.m. from Level I, Marriott Hotel.

Monday, November 17

Hydrogeology I: John George and William McLemore, Presiding. Room 211, Georgia World Congress Center (GWCC), 0800-1200, 13 papers, 15 minutes each, plus one-half hour introduction entitled "Hydrogeology of Georgia." General Session on hydrology and land subsidence.

Hydrogeology Poster Session: GWCC Levels I and II, 1300-1545, 27 Hydrogeology Posters.

Hydrogeology Cocktail Party honoring Joe Poland and Vic Stringfield, 1830-2030. Held in conjunction with Alumni Cocktail Parties, Grand Ballroom, Marriott Hotel. Cash Bar.

Tuesday, November 18

Hydrogeology Division Luncheon and Business Meeting: 1200-1500. Grand Ballroom (Center), Marriott Hotel. Cost: \$10; ticket available by preregistration or at registration desk up to 24 hours before the luncheon.

Wednesday, November 19

The V. T. Stringfield Symposium: Processes in Karst Hydrology: Philip E. LaMoreaux and William Back, Conveners. Room 204, GWCC, 0800-1200, 14 papers, 15 minutes each.

Joseph F. Poland Land Subsidence Symposium: State of the Art: Thomas L. Holzer, Convener. Room 101, GWCC, 1300-1700, 10 papers, 20 minutes each.

Thursday, November 20

Hydrogeology II: Wayne Pettyjohn and Paul Seaber, Presiding. Room 210, GWCC, 0800-1200, 15 papers, 15 minutes each. General Session on hydrogeochemistry and ground-water chemistry.

JOSEPH F. POLAND DINNER

Friends and colleagues of Joseph F. Poland are planning a dinner in his honor, Tuesday, November 18, 1980, 1830-2030, Tara 5 Ballroom, Marriott Hotel, Atlanta. Tickets are \$14 and may be purchased at the Georgia World Congress Center until 1700 hours, November 17, or by sending a check to Donald Helm, Lawrence Livermore Laboratories, L-200, P.O. Box 808, Livermore, California 94500.

1981 ANNUAL MEETING AT CINCINNATI

The 1981 Annual Meeting will be held November 2-5, 1981, at the Stouffers Cincinnati Towers, Cincinnati, Ohio. John E. Stone will be Program Chairman for the Hydrogeology Division. He can be reached at the Department of Geology, Oklahoma State University, Stillwater, Oklahoma 74074 (405-624-6358) and requests that affiliates submit abstracts for the general sessions. He reminds authors that the abstract deadline is June 12, 1981, at GSA Headquarters, Boulder, Colorado. Plans for the meeting will be announced at the Division business meeting, November 18, 1980.

HIGHLIGHTS OF THE 1979 ANNUAL MEETING AT SAN DIEGO

Keros Cartwright, JTPC Representative, and John F. Mann, Jr., Program Chairman, organized an outstanding program for the 1979 Annual Meeting, San Diego, November 5-8, 1979. The Division-sponsored events are summarized in the Minutes of the Annual Business Meeting prepared by Claire B. Davidson, 1979 Secretary-Treasurer.

The 1979 Annual Business Meeting of the Hydrogeology Division was called to order by Chairman Keros Cartwright at 1:00 p.m., Tuesday, November 6, 1979, in the Sunset Room, Town and Country Hotel, San Diego, California. Cartwright introduced the people at the head table: Robert J. Dingman, First Vice-Chairman; John E. Stone, Second Vice-Chairman; Claire B. Davidson, Secretary-Treasurer; Mr. and Mrs. John M. Sharp, Jr., Patrick A. Domenico, George W. White, and Mrs. Jane C. Maxey.

Secretary-Treasurer Davidson asked for approval of the Minutes of the 1978 Annual Business Meeting as published in the September 1979 *Hydrogeologist*. The minutes were approved. Davidson then gave the treasurer's report. As of June 30, 1979, the Division had a balance of \$1,223.00 in the treasury, \$875.00 from dues and \$351.00 from earnings on the Birdsall bequest.

Davidson read the necrology since the 1978 business meeting. A minute of silence was observed for Margaret Griffin and Matthew Kaufman.

Cartwright announced the results of election of officers. The 1980 Management Board consists of the following: Robert J. Dingman, Chairman; John E. Stone, First Vice-Chairman; Leonard A. Wood, Second Vice-Chairman; Secretary-Treasurer Davidson continues in the second year of a two-year term of office. A total of 242 ballots was cast.

Chairman Cartwright introduced George W. White, citationist for the Meinzer Award recipients. White gave a brief biographical sketch of and paid tribute to O. E. Meinzer, Father of American Hydrogeology, in whose honor and memory the award is given. The 1979 Meinzer Award was presented to John M. Sharp, Jr., and Patrick A. Domenico for their paper, "Energy Transport in Thick Sequences of Compacting Sediment", *Geological Society of America Bulletin*, v. 87, no. 3, p. 390-400, 1976. White summarized the background of each recipient; he noted that Sharp, a professor at the University of Missouri, was a former student of Professor Domenico at the University of Illinois, and that Domenico had many former students in prominent positions in academia, government, and industry. Quoting from the introduction, White said the purpose of the paper was

"... to (1) determine the importance of pore-fluid expulsion induced by sediment compaction as a mechanism for the forced convection of energy; (2) examine the magnitude and importance of various thermo-physical and geologic parameters involved in these processes, including hydraulic conductivity and diffusivity and sedimentation rates; and (3) to apply the model to a field area where excess pressures are known to exist. The area chosen is the northern Gulf of Mexico."

In his acceptance speech, John Sharp thanked his parents, wife, college advisors, especially Professor Domenico, and his colleagues at the Universities of Missouri and Illinois for their help and guidance in his professional career. He commented that he was pleased to be a recipient of such a prestigious award and to be a member of the select group of past Meinzer Award recipients. Sharp stated that the field of hydrogeology is one of the most advanced of the earth sciences, because it has had to rely more on non-descriptive quantitative methods rather than readily observable processes that are used in other geologic disciplines. Because of this quantitative background and the capability to construct predictive models of earth systems, hydrogeologists are well qualified to make important contributions in the future toward solving both basic geologic and applied hydrologic and environmental problems.

Patrick Domenico in turn praised the Hydrogeology Division; his contacts with affiliates have been most important to him throughout his career. He expressed his gratitude to his parents and wife, to his former professor, the late George Burke Maxey of the Desert Research Institute, Reno, Nevada, and to his colleagues and students at the University of Illinois for their influence on his professional career. Domenico agreed with Sharp that hydrogeologists are among the best qualified scientists to study fundamental geologic problems. He pointed out that their paper dealt with subsurface flow as a geologic agent instead of the usual water resources problems; furthermore, hydrogeology is an essential science for understanding flow processes in the earth's upper crust, such as in faulting, formation of ore deposits, karst development, and migration of hydrocarbons.

William Back, co-editor with David Stephenson of the unique George Burke Maxey Memorial Volume, *Contemporary Hydrogeology*, reported that Maxey's scholarly influence on his many close colleagues and students in the field of ground-water geology was so great that over 100 people expressed an interest in the volume. Back presented a specially bound copy of the volume published by the *Journal of Hydrology* (v. 43, no. 1/4, October, 1979) to Mrs. Jane C. Maxey. In her acceptance speech Mrs. Maxey thanked the many authors who contributed to the volume. She remarked that although her husband was not able to be a coauthor of an intended book because of the prodigious demands on his time, the Memorial Volume would take the place of that book. Mrs. Maxey expressed her deep appreciation for such a fitting tribute to her husband's scientific achievements. After the presentation Cartwright introduced the following guests: Mr. and Mrs. Lee Maxey, Mrs. Sue MacDonald, Mr. Byron Clow; son, daughter-in-law, sister, and brother, respectively, of Mrs. Maxey.

Chairman Cartwright announced that David Stephenson of Woodward-Clyde Consultants, San Francisco, California, is to be the Third Birdsall Distinguished Lecturer. William Back, coordinator for the lecture tour, reported that 26 invitations from universities and institutions had been received; probably eight would be selected for the tour. Stephenson will present talks and seminars on "Hydrogeologic Aspects of Energy Development" and "The Challenge for Earth Scientists in Water Resources." Back suggested that when possible each Birdsall lecturer should be coordinator for his successor; if not practicable, the Chairman should appoint a coordinator.

John Mann, Jr., 1979 Program Chairman, was not present. Chairman Cartwright, 1979 JTPC, reported on Division events at the San Diego Meetings. In addition to two general sessions consisting of a total of 20 papers, 15 minutes each, the Division sponsored a poster session, and a symposium on "Water Quality Management" consisting of 8 papers, 25 minutes each. The sessions were well attended. Cartwright said a record number of 40 abstracts had been submitted of which approximately 50 percent had been accepted. The pre-convention field trip was led by Darwin Knochenmus, John Mann, Jr., and William Hardt; 33 participants examined "Water Management Practices in Coastal Southern California."

Paul Seaber, 1980 Program Chairman, announced plans for the Atlanta Meetings: William Back and Philip LaMoreaux will be conveners of the Victor Stringfield Symposium on Karst Hydrogeology. Harold Gill, 1980 Field Trip Chairman, was not present. Robert Dingman announced that the Division-sponsored field trip on the "Geohydrology of the Chattahoochee River" will be led by Harold Gill, Robert Faye, Michael Higgins, and Rod Cherry. The raft trip will traverse class II rapids, and participants will examine both the geology, structurally controlled by the Brevard fault zone, and the hydrology of a 6-mile stretch of the river west of Atlanta.

Bruce Hanshaw, Chairman, GSA Committee on Penrose Conferences, reported that five conferences had been scheduled in 1979. Tentative Penrose Conference proposals by three affiliates were discussed; Olaf Pfannkuch expressed interest in a conference on ground-water contamination by hydrocarbons; John Sharp proposed an interdisciplinary conference on the role of ground water in the transport of

chemical constituents in the formation of ore deposits; and Hanshaw suggested a conference on the terrestrial paleoclimatic record. Target dates would be late 1980 to late 1981. Hanshaw said that although it was not necessary to have Division endorsement for hydrogeologically related Penrose Conferences, it was a good policy to have it. Robert Bean recommended endorsement of the proposed conferences; the motion was seconded and passed unanimously.

Once again the role of the six Division representatives of GSA regional sections was raised. Joseph Rosenshein said the Management Board should take a positive stand, formulate guidelines, and initiate action to ensure active participation of hydrogeologists in GSA section meetings through the representatives. As a start, it was agreed that each representative should live in the area he represented. Chairman-Elect Dingman noted the suggestions and stated his intention to try to strengthen the program.

Paul Seaber pointed out the need for more lead time and adequate planning for a successful Division-sponsored symposium at GSA Annual Meetings. He cited difficulties in meeting GSA deadlines as Program Chairman for the 1980 Atlanta Meetings. Under GSA guidelines, 15 half-day symposia are allocated to the seven divisions and eight associated societies. The symposium title, conveners, speakers, and also field trip plans must be finalized almost a year before the annual meetings. Following the Division's present policy of election of officers, Seaber suggested that the First Vice-Chairman Elect should plan now for the 1981 Cincinnati Meetings, and that the Second Vice-Chairman Elect should be thinking ahead about plans for the 1982 New Orleans Meetings. Seaber and Rosenshein suggested more interaction between the Division Management Board and the Hydrology Section of the American Geophysical Union in order to avoid similar symposium themes in any one year.

Chairman Cartwright called for a motion to accept a May 1 deadline for selection of the Meinzer Award recipient; this date would comply with the revision of the bylaws to be ratified by the GSA Council on Wednesday, November 7, 1979. Gerald Meyer made the motion; R. Allan Freeze seconded; the motion passed unanimously.

Cartwright opened the meeting to other business. Milton Hackett announced that Philip Cohen, an affiliate of the Division, is the new Chief Hydrologist of the U.S. Geological Survey. He also announced that Dr. Della Laura, Assistant Chief, Office of International Hydrology, USGS, is the new Executive Secretary, U.S. National Committee on Scientific Hydrology (USNCSH), which coordinates U.S. activities in the International Hydrologic Program (IHP). As David Stephenson, GSA delegate to USNCSH, was in Paris attending an IHP Committee Meeting, Hackett reported further on other IHP activities. John Stone proposed that the outgoing Chairman of the Management Board should continue for a year as an officer of the board. The motion was seconded and passed unanimously. Chairman Cartwright is the first officer to assume the position of Past Chairman [bylaw change ratified by GSA Council, May 14, 1980]. Robert Dingman solicited suggestions for nominees for committee vacancies in 1980. John Stone requested ideas for a field trip and symposium for the 1981 Cincinnati Meetings. Leonard Wood asked whether the Management Board should meet more than once a year; there was some discussion by Bean and Stone; no conclusion was reached during the meeting. Leonard Wood, Chairman, U.S. National Committee, International Association of Hydrogeologists (IAH), a subdivision of the U.S. National Committee on Geology, reported on IAH activities. Mail problems, which had delayed members' receipt of back publications, had been resolved. The IAH, of which Philip LaMoreaux is President, will meet in Paris, July 1980, in conjunction with the 26th International Geological Congress. William Back will cochair a symposium. Registration deadline is February 1, 1980.

Cartwright expressed his pleasure in serving as 1979 Chairman of the Division. He turned the meeting over to Chairman-Elect Dingman who adjourned the meeting at 2:50 p.m.

IRWIN REMSON

FOURTH BIRDSALL DISTINGUISHED LECTURER

Irwin Remson, Professor of Applied Earth Sciences and Geology and Chairman of the Department of Applied Earth Sciences at Stanford University, is the Fourth Birdsall Distinguished Lecturer. His former positions were Professor of Civil Engineering and Mechanics at Drexel Institute of Technology and Geologist and Engineer with the U.S. Geological Survey.

Educated at Columbia University, Dr. Remson's recent research has been concerned with the application of computer simulation and management models to subsurface hydrology. His books include *Numerical Methods in Subsurface Hydrology* by Remson, G. M. Hornberger, and F. J. Molz; and *Geology in Environmental Planning* by A. D. Howard and Remson.

Dr. Remson will present two lectures:

Modern Hydrogeology—Capabilities and Challenges

In this general lecture the capabilities of modern hydrogeology are illustrated using case histories. Properly trained hydrogeologists are confronting critical problems such as optimal water management and waste disposal and nuclear waste isolation.

Optimal Ground Water Management.

The preparation of computer models to test the effects of proposed ground water developments is state of the art. A logical next step is the use of models to determine optimal ground water management policies. This is becoming increasingly important as aquifers are used for both water supply and waste disposal.

A complete itinerary has not been established at this time, but it will coincide with the 1980–1981 academic year. If you would like your institution to be considered a part of Dr. Remson's Distinguished Lecture Program, inquiries should be sent to David Stephenson, Coordinator, Birdsall Lecture Program, Woodward-Clyde Consultants, Three Embarcadero Center, Suite 700, San Francisco, CA 94111, (415) 956-7070. (Dr. Remson notes that January 1 will not be suitable for a Birdsall Lecture, because he will be watching Stanford win at the Rose Bowl on that day!)

The Birdsall Lectures are funded by the Division through an endowment from the late John Birdsall, hydrogeologist, to honor outstanding professionals in the field of hydrogeology. Former recipients of the annual award are Jacob Bear, TECHNION, Israeli Institute of Technology, Haifa, Israel; William Back, USGS, Reston, Virginia; and David Stephenson, Woodward-Clyde Consultants, San Francisco, California (see next item).

SUMMARY OF THIRD BIRDSALL LECTURE TOUR

William Back, Coordinator, Third Birdsall Distinguished Lecture Tour, reports that David A. Stephenson of Woodward-Clyde Consultants, San Francisco, California, visited the following educational institutions February–May 1980: Montana State University, Northern Illinois University, University of South Florida (Tampa), University of Idaho, Washington State University, University of Colorado, Colorado School of Mines, Lawrence Livermore Laboratories, New Mexico Institute of Mining and Technology, Utah Geological Society, and Augustana College. The Uni-

versity of Waterloo and Pennsylvania State University are scheduled for the fall.

Each visit involved a formal lecture, "Hydrogeological Aspects of Energy Development," and informal and formal classroom discussions with faculty, graduate, and undergraduate students. The abstract of his lecture follows:

A mandate to the earth-science community during the 1980s is to help lead the way toward major development of energy resources and effectively isolate hazardous wastes. Earth scientists are to do this to the satisfaction of all interest groups and in full cooperation with policy makers, regulatory agencies, and other technical groups. The presence or absence of water resources will be a significant limiting factor to economically meeting this mandate. A major obstacle in this effort is the fact that basic concepts of hydrogeology are often poorly understood by technical and non-technical people alike.

The challenge to hydrogeologists is to enlarge and improve the quality of the water-resources data base, which is currently good on a regional scale, but poor to nonexistent on a site-specific scale. We must do this in the face of costs that are rising only slightly less rapidly than the geopolitical problems and administrative associated with energy development and hazardous-waste disposal. There is a serious shortage of trained manpower to accomplish these tasks and a definite need to return to the fundamentals of hydrogeology. We need to establish a balance between theory and practice in hydrogeology and its subdisciplines, especially hydrogeology.

ACTIVITIES OF THE INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS: MOORE REPORT

There were many activities of interest to hydrogeologists at the 26th International Geological Congress held in Paris, July 7-17, 1980. The activities consisted of technical symposiums, the general assembly of the International Association of Hydrogeologists (IAH), and several IAH commission meetings on ground water topics.

There were eight technical symposiums concerning hydrogeologic subjects. The major topics were ground-water forecasting, hydrogeology of fissured rocks, hydrogeology of Africa, hydrogeology of alluvial aquifers, and geochemistry of ground water. Most of the symposiums were sponsored by IAH.

A new slate of officers was installed at the IAH General Assembly as follows:

President— G. Castany, France
Secretary— E. Romijn, Netherlands
Treasurer— P. Groba, Germany

The IAH also held several commission meetings in Paris: Commission on Hydrology of Karst, Hydrogeologic Maps, and Hydrogeology of Volcanic Terranes.

The U.S. Committee for IAH elected new officers in May as follows:

Chairman— John E. Moore
Vice-Chairman— David Stephenson
Secretary-Treasurer— Larry Doyle

The U.S. Committee of IAH will co-sponsor a symposium, "Ground-Water Hydraulics," with the American Geophysical Union (AGU), to honor John Ferris, at the AGU Meeting, May 25-29, 1981, in Baltimore, Maryland.

Hydrogeologists who want to join or to obtain information on the IAH should write to John E. Moore, 2302 Fox Fire Court, Reston, VA 22092.

INTERNATIONAL HYDROLOGIC PROGRAM STEPHENSON REPORT ON PARIS MEETING

The International Hydrological Program (IHP) is an ongoing activity that evolved from the International Hydrological Decade (1965-1974). Meetings of the IHP Intergovernmental Council plus several IHP Committees were held in Paris, France, November 6-16, 1979. Dave Stephenson of Woodward-Clyde Consultants, who represents the Hydrogeology Division of the Geological Society of America on the U.S. National Committee on Scientific Hydrology (of IHP), attended the Second Session of the Committee on the Influence of Man on the Hydrologic Cycle (November 6-8). The terms of reference for this committee are:

1. To review IHP activities relating to the influence of man's activities on the hydrologic cycle, and in particular, the work performed under IHP Projects 5, 6, 7, and 8.

2. To prepare appropriate recommendations to the Council in order to ensure that these activities duly reflect the practical needs of water management and environmental conservation.

3. To study the relations of IHP activities in this field with relevant activities conducted within the framework of other international programs and to prepare recommendations to the Council for proper harmonization.

During the Committee meetings, the tasks were: to review work accomplished to date within First Phase projects; to recommend action on the last two-year period in the First Phase of the IHP; to review and finalize the proposed work program for the Second Phase of the IHP. The Second Phase has been shortened to a three-year period (1981-1983 inclusive) to bring program funding into phase with the UNESCO budget.

Major concerns for the delegates from the 15-member Nations on the "Man's Influence" Committee are projects within the broad categories of: investigation of the hydrogeological and ecological effects of man's activities and their assessment (8 sub-projects); hydrological and ecological aspects of water pollution (4 sub-projects); effects of urbanization on the hydrological regime and on the quality of water (5 sub-projects); extrapolation of data from representative and experimental basins; and physical and mathematical models for investigation and predicting the changes in ground-water regimes due to human activities (4 sub-projects).

Anyone wishing additional information on this topic can contact Dr. Della Laura, Executive Secretary of the U.S. National Committee on Scientific Hydrology (703) 860-6547, or Dr. David Stephenson (415) 956-7070.

YUCATAN FIELD TRIP

Jules Braunstein, General Chairman, 1982 Annual Meeting, New Orleans, reports that plans are progressing for a four-day trip to Yucatan to study processes of recent carbonate sedimentation and diagenesis, Pleistocene reefs, carbonate stratigraphy, hydrogeology, and living coral reefs with stops at the Mayan archaeological sites of Chichen Itza, Tulum, and Uxmal. Al Weidie, Bill Ward, Bruce Hanshaw, and Bill Back will lead the premeeting trip, October 13-17, 1982.

MAXEY MEMORIAL VOLUME GIVEN TO FAMILY MEMBERS

A specially bound copy of the George Burke Maxey Memorial Volume, *Contemporary Hydrology*, donated by Elsevier Scientific Publishing Co., was presented to Jane Maxey at the Hydrogeology Division's annual luncheon, November 6, 1979, in San Diego. John Hawley has arranged for the purchase of five additional copies of the volume, which have been given to the Maxey children: Lee Burke, Nel Jane, Dan, Ann Essex, and Jean. Elsevier North-Holland, Inc., has contributed nearly \$100 for these copies. Friends of the Maxey family who wish to join John in paying the balance of the cost of this gift (\$274.68) should send contributions to John W. Hawley, 503 Mesa Place, Socorro, NM 87801.

TREASURER'S REPORT

As of June 30, 1980, the Division had a balance of \$3,020.77 in the treasury.

Income:

Balance brought forward 12/31/79	\$ 447.61
Dues 1980	\$1,636.00
Birdsall Fund balance 12/31/79	\$2,249.02
(Total \$12,249.02 minus \$10,000 restricted)	\$4,332.63

Expenses:

To GSA from dues	\$ 171.09
From Birdsall Fund	\$1,140.77
	\$1,311.86

Balance:

Dues	\$1,912.52
Birdsall Fund	\$1,108.25
	\$3,020.77

HYDROGEOLOGY DIVISION

1980 Management Board

Chairman

Robert J. Dingman, Reston, Virginia

First Vice-Chairman

John E. Stone, Stillwater, Oklahoma

Second Vice-Chairman

Leonard A. Wood, Vienna, Virginia

Secretary-Treasurer

Claire B. Davidson, Reston, Virginia

1980 Committees

Meinzer Award Panel

Eugene S. Simpson, Chairman

Martin Mifflin

Irwin Remson

Philip Cohen

James J. Geraghty

Nominating Committee

Roy E. Williams, Chairman

Robert E. Bergstrom

Paul R. Seaber

Program Chairman

Paul R. Seaber

Field Trip Chairman

Harold E. Gill