

For the 206th ACS National Meeting in Chicago in August 1993, symposia are planned to cover new technologies for the delivery of chemical information, chemical information careers in transition, spectroscopic databases, computational approaches for matching chemical structures, chemical information instruction, and electronic notebooks.

### Unusual Experiences

For all the ACS National Meetings, the assignment of hotel rooms for Divisional meetings and social functions has always been done by the ACS Department of Meetings and Divisional Activities. Special requirements have been honored for most meetings, such as having cosponsored and related symposia organized by other Divisions, as well as Divisional governance functions, in the same hotel or convention center where the Divisional own symposia and sessions were held.

Occasionally, however, the Division was unlucky in having its meeting room or social function in hotels ill equipped for the purpose or far away from the center of the ACS National Meeting activities. Here are a few instances of such experiences to be reminisced by the participants in years to come:

- Hotel Konover in Miami Beach in September 1978, farthest north on Collins Avenue, 4.1 miles from the Convention Center, site of the ACS Exposition
- Hotel Warwick in New York in August 1981, where corridors and rooms were refurbished with accompanying noise, just outside the meeting room while the sessions were being held
- Hotel DiLido in Miami Beach in April 1985, where
  - hotel staff did not know or pretended not to understand much English, which was convenient for handling, or rather ignoring, complaints
  - for the Executive Committee meeting, the seating was arranged in tables of four, ideal for a bridge tournament
  - at the luncheon when someone asked for a slice of bread, a whole loaf was delivered still wrapped in plastic foil
- Hotel Milford Plaza in New York in April 1986, definitely a third-class, not noted for cleanliness
- Hotel Pennsylvania in New York in August 1991, farthest south on 7th Avenue, 22 city blocks

from New York Hilton Hotel, site of the ACS Exposition

### 4. Special Meetings, Joint Meetings, and Regional Activities, 1975-1993

A detailed list of symposia and sessions at the special and joint meetings is presented in **Table VII** (page 47-48), along with the number of papers and the names of organizers and chairmen.

#### ACS/ASIS/SLA Tri-Society Symposia

The 1st Tri-Society Symposium (originally referred to as "Seminar") was held in conjunction with the 69th Special Libraries Association (SLA) Annual Conference in Kansas City on June 11, 1978. The host was the SLA Chemistry Division and the topics included indexing, retrieval of structures, accessing online files, and toxicological information. The program attracted more than 100 attendees.

The precedent for a cooperative effort of the three groups was established. An organizational meeting on the next Symposium planned for 1981 took place as early as November 15, 1978, with Gabrielle S. Revesz representing the Division, yet the plan was abandoned on June 10, 1980. Even a last minute detailed proposal by Harry M. Allcock did not produce the desired result. The reasons cited for cancelling the project were "organizing complexity, meeting conflicts, and loss of spirit". The organizers agreed "to shake hands and quit", because "the financial and organizational risks were looming larger, and the potential for benefit smaller".

It took a determined effort on part of James M. Cretsos, on behalf of the American Society for Information Science (ASIS) - Special Interest Group on Biological and Chemical Information Systems (SIG/BC), to put the project back on the front burner in March 1981. Once all three societies became convinced that such a meeting would be very beneficial to the professional needs of the three groups, planning proceeded smoothly.

The 2nd Tri-Society Symposium was on "Technology and Its Impact on the Future of Chemical Information Processing" and was held in conjunction with the 45th ASIS Annual Meeting in Columbus on October 17, 1982. The emphasis was on new techniques and systems, and interfaces with end users. Over 90 participants attended. The final report by James M. Cretsos, the symposium organizer, stressed the cooperative spirit of the three cosponsoring groups and

**Table VII.**  
**Special and Joint Meetings, 1975-1993**

<p><b>1st Tri-Society Symposium, June 11, 1978 - Kansas City, MO</b>            What Is and What Is Not Indexed in Chemical Information (Toni Carbo Bearman)            Structural Retrieval Methods in Chemical Information (James E. Rush)            Structural Activity (Paul N. Craig)            Future of Chemical Information (Otis C. Dermer)            Current Awareness in Toxicological Information (Richard A. Parent)            Accessing Online Data Files            Impact of Computer Searching on Chemical Information</p>
<p><b>2nd Tri-Society Symposium, October 17, 1982 - Columbus, OH</b>            New Techniques and Systems (5) (W. Jeffrey Howe)            Interface With End Users (3) (Ronald G. Dunn)            Panel Discussion on Evolving Roles of End Users and Information Specialists in Chemical Information Transfer (Ronald R. Dueltgen)</p>
<p><b>1984 International Chemical Congress of Pacific Basin Societies, December 18-19, 1984 - Honolulu, HI</b>            Communicating Chemical Information (6) (Leslie W. Shemilt)            International Solutions to Problems of Nomenclature (11) (Kurt L. Loening)            Computer Manipulation of Chemical Information (6) (Shin'ichi Sasaki)</p>
<p><b>3rd Tri-Society Symposium, April 14, 1986 - New York, NY</b>            Chemical Information Technology, Optical Storage Technology, Human Factors (5) (Ruthann Bates)            Artificial Intelligence Expert Systems, Telecommunications, Information Access, Online Retrieval (5) (Joanne L. Witiak)</p>
<p><b>1st International Conference, May 31-June 4, 1987 - Noordwijkerhout, The Netherlands</b>            R&amp;D in Chemical Information Science, Retrospect and Prospect (Michael F. Lynch) (Keynote Address)            Future Trends in Integrated Information Management: Is There a Strategic Advantage? (Myra N. Williams) (Plenary Lecture)            Integrated In-House Chemical Databases (7) (David K. Johnson)            Substructure Searching Methodology (11) (Peter W. Nichols; Reiner Luckenbach)            New Technologies (7) (Bonnie Lawlor)            Chemical Reactions (6) (Gerald G. Vander Stouw)            Poster Papers (11) (David K. Johnson)</p>
<p><b>1989 American Institute of Chemical Engineers (AIChE) National Meeting, August 1989 - Philadelphia, PA</b>            What's New in Databases for Chemical Engineers</p>
<p><b>1989 International Chemical Congress of Pacific Basin Societies, December 20, 1989 - Honolulu, HI</b>            The Terminology of Biotechnology: A Multidisciplinary Problem (23) (Kurt L. Loening; J. Rokach; A. Tsugita)</p>
<p><b>2nd International Conference, June 3-7, 1990 - Noordwijkerhout, The Netherlands</b>            Chemistry in Three Dimensions (Ernest L. Eliel) (Keynote Address)            Chemical Structures (33) (Wendy A. Warr; David K. Johnson; Gerald G. Vander Stouw; Peter W. Nichols; William G. Town; Reiner Luckenbach; Joanne L. Witiak) on representation of and search for stereochemical information, 3-D databases, 3-D substructure searching, similarity searching, generic searching, reaction searching, computer-assisted synthesis, nomenclature, information systems, and the Standard Molecular Data (SMD) Format.            Poster Papers (10) (David K. Johnson)</p>

**Table VII. (continued)**

**4th Tri-Society Symposium, June 10-11, 1990 - Pittsburgh, PA**

Carnegie Mellon University Library (Field Trip)

Putting Technology to Work in the World of Chemical Information (8) (Gary D. Wiggins)

Clearinghouse for Chemical Information Instructional Materials (Poster Session) (Carol A. Carr)

**3rd International Conference, June 6-10, 1993 - Noordwijkerhout, The Netherlands**

The Use of Mathematically and Formally Logical Computer Programs in Chemistry and Their Applications to Reactions (Ivar Ugi) (Keynote Address)

Chemical Structure Representation and Search (7) (Gerald G. Vander Stouw)

Chemical Reaction Handling (7) (Reiner Luckenbach)

Processing of Chemical Structure Information (7) (John M. Barnard)

3-D Chemical Structure Handling (6) (Wendy A. Warr)

Poster Papers (29)

recommended repeating such a symposium every three years, in conjunction with the national meeting of the host organization.

The 3rd Tri-Society Symposium on "New Technologies and Chemical Information: 1986" was held in conjunction with the 191st ACS National Meeting in New York on April 14, 1986. A logo was designed to reflect a common bond of the three groups - chemistry (C) - with acronyms of the three parent organizations (ACS, ASIS, and SLA):



The speakers from various segments of the information community (database producers and vendors, government agencies, industrial users, and information consultants) reviewed optical storage technology, artificial intelligence and expert systems, telecommunications, and integrated information network architecture. The impact of new technologies on chemical information processing, and the human factors involved therein, were also covered. In his report, W. Val Metanowski, the symposium organizer, noted excellent attendance (150-160) and the satisfaction of the participants at having been appraised of the new technologies, which were changing the ways chemical information was handled and paving the way for modern tools in the future.

Now that the cycle of each participating society hosting the Tri-Society Symposium had been completed, it was the turn of the Special Library Association (SLA) (Chemistry Division) to host the 4th Tri-Society Symposium. It was organized by Gary D. Wiggins and held in conjunction with the 81st Special

Libraries Association Annual Conference in Pittsburgh on June 10-11, 1990. "Putting Technology to Work in the World of Chemical Information" was its theme. The Symposium was well attended. The organizers indicated continuing support for such a cooperation among the chemical information groups of the three societies.

The 5th Tri-Society Symposium is being planned in conjunction with the 57th ASIS Annual Meeting in Alexandria, VA, in October 1994.

**International Conferences**

The 1st International Chemical Information Conference on "Chemical Structures: The International Language of Chemistry" was held in Noordwijkerhout, The Netherlands, on May 31-June 4, 1987 [Ref. 28]. It was cosponsored by the Chemical Structure Association (UK), the Chemical Information Group of the Royal Chemical Society, die Fachgruppe Chemie-Information in der Gesellschaft Deutscher Chemiker, and the Division. Wendy A. Warr chaired the Conference and Charles L. Citroen was the Dutch host. The keynote address on research and development in chemical information science was given by Michael F. Lynch and the plenary lecture on future trends in integrated information management by Myra N. Williams. Attending the Conference were 187 participants from 13 countries. There were 33 papers, grouped under four major topics, 11 poster papers, and an exhibition of various publications and software. The purpose of the Conference was admirably fulfilled. It brought together experts and an international, professional audience to discuss the latest developments in the handling of chemical structures. It also promoted cooperation among major chemical information groups in Europe and North America.

The 2nd International Conference on the same topic was held again in Noordwijkerhout in June 3-7, 1990 [Ref. 34]. The Royal Netherlands Chemical Society was an additional sponsor. Wendy A. Warr chaired the Conference and Charles L. Citroen was again the Dutch host. The keynote address, "Chemistry in Three Dimensions", by Ernest L. Eliel provided an excellent introduction to the key subject of the Conference. Unlike in 1987, aspects of chemical nomenclature such as automatic generation, integration into the structure-based systems, and use in industry, were on the program. About 180 participants from 13 countries attended. In addition to 33 papers presented, 10 poster papers were displayed, and demonstrations of software for the access to various databases were given by 12 exhibitors. As in 1987, the Conference fulfilled the expectations of the organizers and participants as an excellent forum to learn about the advances in the handling of chemical structures which are the core of any chemical information system.

The 3rd International Conference, cosponsored by the same five organizations, scheduled for June 6-10, 1993, again at Noordwijkerhout, will be chaired by Gerald G. Vander Stouw. By now the Conference has established its place as a forum to exchange experience and ideas in further development in the field among the organizations and individual researchers involved with chemical structures and chemical information. Chemical structure representation and search, 3-D chemical structure handling, and chemical reaction handling will again be the main themes of the Conference. There is much to report and discuss on what has transpired in the field since the 1990 Conference. Twenty-eight papers, 29 poster papers, and an exhibition featuring commercial software and services, and software from research projects, are planned.

### Other Joint Meetings

The 1984 International Chemical Congress of Pacific Basin Societies (PAC CHEM '84), which took place in Honolulu on December 16-21, 1984, had technical program organized not along the Divisional lines, but on 10 subject areas. One was "Information Transfer/Computation" which covered chemical information and related areas. Herman Skolnik and Kurt L. Loening, on behalf of the ACS, were the organizers of the symposium on "Chemical Information Science", covering the aspects of communicating chemical information, international solutions to problems of nomenclature, and computer manipulation of chemical information. Out of a total of 23 papers, six were presented by Japanese, five by Canadian, and two by Australian participants.

The 1989 International Chemical Congress of Pacific Basin Societies (PACIFICHEM '89) in Honolulu on December 17-22, 1989, was organized along similar lines. This time, nine major subject areas were identified, among them "Information Transfer" which covered computation, economics, education, and management as well. The Division again supported and indirectly participated in the event. Joanne L. Witiak was the area coordinator on behalf of the ACS. The symposium most related to Divisional activities was on "The Terminology of Biotechnology", organized by Kurt L. Loening and presented within the "Bioscience and Technology" subject area. Out of a total of 19 papers and four poster papers, five were by Japanese, two by Canadian, one by Australian, and one by Dutch speakers.

The Division participated in the 1989 National Meeting of the American Institute of Chemical Engineers (AIChE) in Philadelphia in August 1989 through a symposium on "What's New in Databases for Chemical Engineers".

### ACS Regional Meetings

The Division did not participate officially in ACS Regional Meetings. It depended mostly on the interest and resourcefulness of individual Division members in respective geographical areas to organize and chair symposia on the subjects related to the field of chemical information.

In 1980, the Division decided to play a more positive and visible role in the ACS Regional Meetings by offering advice and help to the Regional Meeting organizers. The Middle Atlantic Regional Meeting (MARM) had already established a tradition of having chemical information symposia on its program, primarily because of the existence of Chemical Information Topical Groups in the Delaware and Philadelphia Local Sections. The Central, Great Lakes, and Northeast Regional Meetings became target for the inclusion of chemical information symposia on their programs.

Almost every year the Divisional Chairman-Elect and the Program Committee Chairman attended the ACS Divisional Officers Conference (DOC) and the Program Coordination Conference (PCC). It was at the latter conference that attempts were being made to establish contact with the Regional Meeting chairmen and program chairmen. At times, these contacts were successful in promoting chemical information as a field to be covered at the ACS Regional Meetings.

In the late 1980s, the Divisional Program Committee

had one member whose specific assignment was to coordinate Regional Meeting activities. The effort was very successful as evident by the presence of chemical information topics at three ACS Regional Meetings in 1986, four in 1987, and three in 1988. On a number of occasions, the symposia presented at the ACS National Meetings were repeated at a Regional Meeting.

A complete list of participation in the ACS Regional Meetings is not available, yet most of them for the period 1975-1993 are listed in **Table VIII** (page 51-52).

### Local Section Tour Speakers

Over the years, active, knowledgeable, and willing Division members volunteered to be tour speakers lecturing on broad or specialized subjects related to chemical information at the ACS Local Section meetings. Usually, two or more geographically close Sections were visited at a time, mainly to reduce expenses associated with travel. The most recent "ACS Speakers List, 1992-1993", published by the ACS Local Speaker Service, includes two related subject areas with several names within each:

- Chemical literature  
Ralph O. Allen  
Maureen W. Matkovich  
O. Bertrand Ramsay  
Herman Skolnik
- Information retrieval  
Rudolph J. Marcus  
John D. Peterson  
Herman Skolnik

In the 1970's and 1980's, Ralph E. O'Dette also participated in the tour speaker program and delivered a number of presentations before the ACS Local Sections.

### 5. Educational Activities, Workshops, and Seminars, 1975-1993

In 1976, at the 171st ACS National Meetings in New York in April, the Division sponsored the first of a long series of vendor's workshops/seminars which were to continue on a regular basis for 15 years. The Division members expressed interest in being informed about the publications and services of the various providers of chemical information in a more technical environment as opposed to strictly commercial advertising at the Exposition. The workshop/seminar organizers were asked to present technical-like papers prepared by their staff as well as by users of the specific services, who were willing to share their experience.

Often hands-on tutorials were included. The organizations that participated were:

- database producers (Chemical Abstracts Service, Institute for Scientific Information, BioSciences Information Service, Derwent Publications, National Library of Medicine, IFI/Plenum, Predicasts)
- online vendors (DIALOG, ORBIT, Questel)
- publishers of handbooks and dictionaries (Beilstein, Gmelin, Heilbron's Dictionary of Organic Compounds, Merck)
- chemical marketing service (SRI International)
- graphic software provider (Molecular Design Limited)

At times, these workshops/seminars coincided with the introduction of new editions or innovations, e.g., the 5th edition of Heilbron's Dictionary of Organic Compounds and the 11th edition (100th anniversary) of the Merck Index.

A detailed list of workshops, seminars, and demonstrations presented at the ACS National Meetings is given in **Appendix 7** (page 104).

In 1977, the Division, together with the Divisions of Chemical Education and Computers in Chemistry, sponsored the ACS Workshop on Computers III in Upper Montclair, NJ, on June 26-29 (Mark L. Lyndrup, Coordinator). The Division contributed the workshop on "Computer-Based Information Storage and Retrieval" (Peter F. Sorter; Melvin L. Spann).

The ACS Department of Educational Activities published in April 1977 a booklet "Careers Nontraditional" (Pamela Ayre and Patricia M. Lemaire, editors) [Ref. 22]. Two chapters were devoted to careers in information science. The opportunities in information science were presented in the form of interviews with Trisha M. Johns (G. D. Searle & Company's Chemical Data and Literature Section) and Rona Sun (Smithsonian Science Information Exchange). Ronald R. Dueltgen was also identified in one of the chapters.

The 1977 Long Range Planning Committee (Carlos M. Bowman, chairman) identified education as one of the five areas of activity the Division needed to be involved in. It recommended restructuring the Education Committee to better assess member needs, to institute the development of systematic evaluative compilations of existing courses, and to provide specific courses and seminars at the meetings, coordinated with the meeting content.

Implementation of these recommendations continued to be discussed by the Executive Committee. In

**Table VIII.**  
**Symposia at the ACS Regional Meetings, 1975-1993**

<p><b>10th Middle Atlantic, February 1976 - Philadelphia, PA</b> Chemical Documentation (13) (Herman Skolnik; Peter F. Sorter)</p>
<p><b>11th Middle Atlantic, April 1977 - Newark, DE</b> Searching the Patent Literature (9) (Carleton C. Conrad) Online Databases: Users' Experiences and Evaluations (8) (Stuart M. Kaback) General (8) (Ralph E. Miegel) Workshop: Nomenclature (CAS staff)</p>
<p><b>12th Middle Atlantic, April 1978 - Hunt Valley, MD</b> Chemical Documentation (13) (Melvin L. Huber)</p>
<p><b>13th Middle Atlantic, March 1979 - West Long Branch, NJ</b> Systems for Structures and Data: Access to Nonbibliographic Chemical Information (10) (Melvin L. Huber; D. Lewis)</p>
<p><b>11th Central, May 1979 - Columbus, OH</b> Science Information in Today's Society (3) (Ralph E. O'Dette)</p>
<p><b>14th Middle Atlantic, April 1980 - King of Prussia, PA</b> Development and Use of Reliable Data Bases for Quantitative Structure Activity Relationships (QSAR) (11) (Sidney Siegel; Amy Rispin)</p>
<p><b>15th Middle Atlantic, January 1981 - Washington, DC</b> Aids to Use Multiple Online Files (5) (Paul N. Craig) Statistical Correlations of Biological Activity with Chemical Properties (5) (Paul N. Craig)</p>
<p><b>13th Central/15th Great Lakes, May 1981 - Dayton, OH</b> Using the Computer To Do Research - the Emerging Computer Chemistry (5) (Gerald G. Vander Stouw)</p>
<p><b>16th Middle Atlantic, April 1982 - Newark, DE</b> Online Today: Where Are We Now, Where Are We Heading? (4) (Charles H. Nelson) General (4) (Charles H. Nelson)</p>
<p><b>14th Central, June 1982 - Midland, MI</b> Chemical Information (12) (Carlos M. Bowman)</p>
<p><b>17th Middle Atlantic, April 1983 - White Haven, PA</b> Cost-Effectiveness of Online Searching of Chemical Information (6) (Robert E. Buntrock) General (7) (Jean G. Marcali) Numeric Databases (7) (B. Feuer) Copyright - Bane, Boon or Both? (5) (Frederick H. Owens)</p>
<p><b>16th Central/18th Great Lakes (3rd Joint), May 1984 - Kalamazoo, MI</b> Current Topics in Chemical Information (10) (Patricia F. Roush) Direct End-User Access to Chemical Information (5) (Ronald R. Dueltgen) Poster: Careers in Chemical Information</p>
<p><b>16th Northeast, June 1986 - Binghamton, NY</b> Tutorial on Chemical Information (Arleen N. Somerville) Cost-Effective Information Access for Chemists in Small Companies (5) (Arleen N. Somerville)</p>

<b>Table VIII. (continued)</b>	
<b>20th Middle Atlantic, September 1986 - Baltimore, MD</b>	Literature Searching for Chemical Reactions (5) (Barton K. Bower)
<b>42nd Southwest, November 1986 - Houston, TX</b>	Exploring the Fringes of Chemical Information Retrieval (7) (L. Levine)
<b>19th Central, June 1987 - Columbus, OH</b>	Finding Information in Patent Databases (5) (Edlyn S. Simmons) Communicating of Chemical Knowledge in the Nineties (4) (Gerard O. Platau) General (4) (Marian S. Bursten) Poster: Careers in Chemical Information
<b>21st Great Lakes, June 1987 - Chicago, IL</b>	End-User Views of End-User Searching (5) (Ronald R. Dueltgen; Robert E. Buntrock)
<b>17th Northeast, November 1987 - Rochester, NY</b>	Computer-Searching of Chemical Databases (7) (Arleen N. Somerville)
<b>43rd Southwest, December 1987 - Little Rock, AR</b>	Searching the Chemical Database (4) (J. L. York; C. G. Winter)
<b>9th Rocky Mountain, March 1988 - Las Vegas, NV</b>	Recent Developments at Chemical Abstracts Service (4) (Harry F. Boyle)
<b>22nd Middle Atlantic, May 1988 - Millersville, PA</b>	Technology Update: Sources and Access to Chemical Information (5) (Andrea Holladay)
<b>20th Central, June 1988 - Morgantown, WV</b>	Cost-Effective Chemical Information Retrieval (5) (Carol A. Duane)
<b>1988 Pacific Conference on Chemistry and Spectroscopy, October 1988 - San Francisco, CA</b> (originally announced as 24th Western Regional Meeting)	Computer Information (8) (P. Cohan)
<b>23rd Middle Atlantic, May 1989 - Cherry Hill, NJ</b>	Workshop: Searching the Chemical Literature on Your Personal Computer (Andrea Rosanoff)
<b>22nd Central, June 1990 - Saginaw, MI</b>	(Susanne V. McKinley; Carlos M. Bowman) Materials and Chemical Information (6) (J. R. Downey; R. K. Shastri) Patent Information (6) (Michael S. Feider) Software for Chemists (6) (Ingrid L. Knox; E. W. Otterbach)
<b>25th Middle Atlantic, May 1991 - Newark, DE</b>	General (5) (L. Kronk) Second Careers in Chemical Information (6) (Bruce Slutsky)
<b>27th Middle Atlantic, June 1993 - Hempstead, NY</b>	Me and My Mac (4) (Norman R. Schmuff)

1980, the Committee voted not to establish an Education Committee, as it felt that opportunities for continuing education had been expanded within the meeting programs. At the 181st ACS National Meeting in Atlanta in March/April 1981, information on careers in library and information science, and on legal and paralegal careers in chemistry, was provided through two symposia.

In 1982, David K. Johnson represented the Division at the meetings of the ACS Committee on Professional Training (CPT). He was asked to communicate the Divisional views on the Committee's criteria for instruction in chemical information. In 1983, the Division was instrumental in securing a proper content of the chapters on "Chemical Literature and Information Retrieval" and "Library" in the CPT's "Undergraduate Professional Education in Chemistry: Guidelines and Evaluation Procedures". These guidelines have noted that "students preparing for professional work in chemistry must learn how to retrieve specific information from the enormous and rapidly expanding chemical literature".

At the 184th ACS National Meeting in Kansas City in September 1982, a symposium on "Chemical Literature and Information Retrieval in the Chemistry Curriculum" (George Gorin; Herman Skolnik, chairman) was presented. In the December 1982 issue of the *Journal of Chemical Education*, several papers were published from an earlier symposium, "Instruction in Chemical Literature", including those by George Gorin and Gary D. Wiggins.

In 1983, the Education Committee was reestablished (Arleen N. Somerville, chairman) with specific goals such as:

- to aid college and university professors and/or librarians in teaching the use of chemical information
- to interact with other ACS bodies, such as the Committee on Professional Training (CPT)
- to assist industrial information centers in educating their scientists in the use of chemical information

Two Divisional officers attended the workshop on the "Potential of the Science of Chemistry", organized by the ACS Committee on Science in Washington, DC, on September 2-3, 1983, and reported that the workshop had no relevance to the Division's areas of interest.

In 1984, the Committee conducted a survey of the chemical information programs of 331 chemistry departments to identify difficulties faced by the departments in implementing information instructions. Many departments answered that their curricu-

lum was too crowded to accommodate a separate chemical information instruction course and that even in other courses information instruction could not be included. Arleen N. Somerville described the survey, analyzed the results, and suggested remedies in a paper on "Perspectives and Criteria for Chemical Information Instruction" published in the May 1990 issue of the *Journal of Chemical Information and Computer Sciences* [Ref. 33].

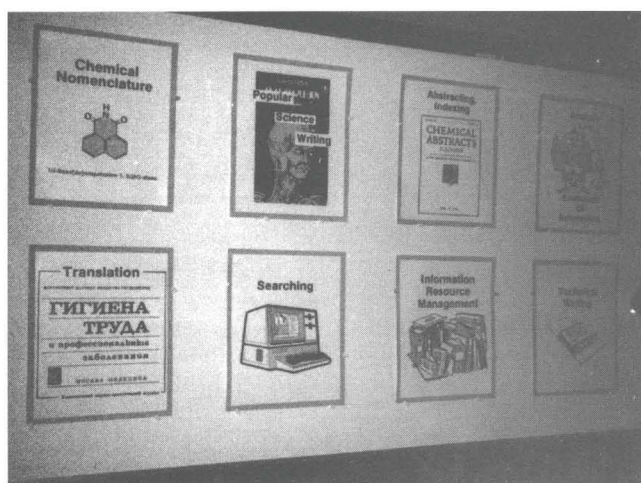
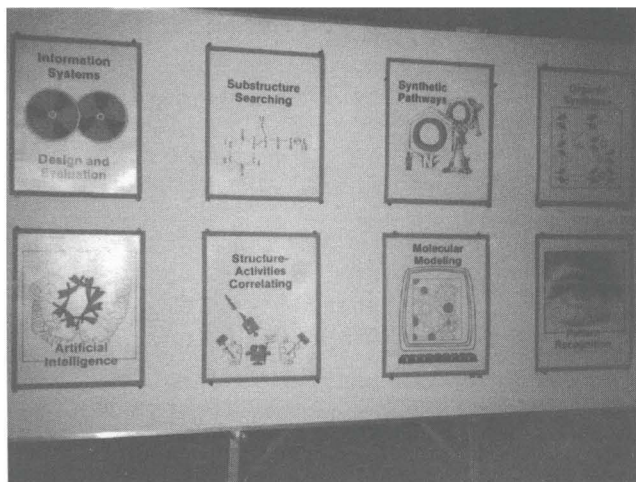
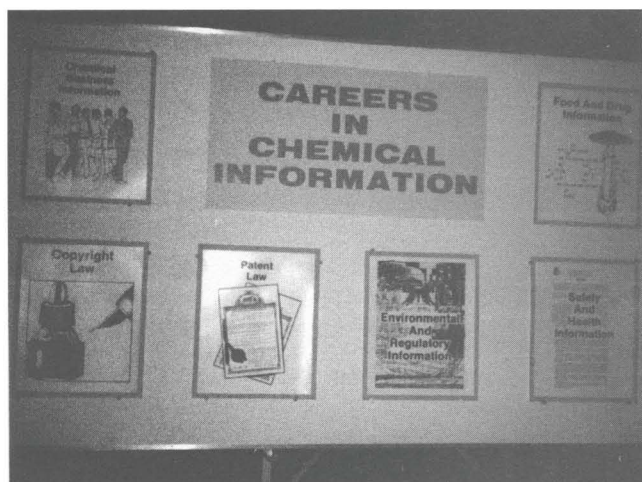
Promoting careers in chemical information has always been one of the Division's challenges. To this end, a poster "Careers in Chemical Information" on three boards was created, a project guided by Patricia F. Roush with the support of Dow Chemical U.S.A., with the intention of displaying it at a number of meetings, especially at the ACS Regional Meetings. This was done in the period 1984-1987. The individual 22 panels promoted by words and pictures such fields as:

- abstracting, indexing, technical writing
- chemical nomenclature
- substructure searching
- analysis and evaluation of information
- structure-activity correlations
- molecular modeling
- chemical business information
- environmental and regulatory information
- information resource management
- copyright and patent laws

Also in 1984, the Division produced a videotape (23 minutes) entitled "Chemists and Questions". It demonstrated how chemists, engineers, managers, and others can improve their understanding of chemistry by working with chemical information professionals. It provided answers to such questions as:

- how do chemists get their answers?
- what are the careers in the chemical information profession?
- how can chemical information professionals contribute to achievements in research and development, and in market development?
- what do you need to know to justify information costs?

The videotape project was the initiative of Jean G. Marcali, the 1982 Divisional Chairman, who also guided the project from its inception, arranged for a professional producer (Dorothy Arthur), reviewed the scripts, organized the taping sessions, and promoted the product. Six Division members (Carlos M. Bowman, Jean G. Marcali, Ann P. Moffett, Ralph E. O'Dette, Barbara G. Prewitt, and Bruno M. Vasta)



**“Careers in Chemical Information” posters.**

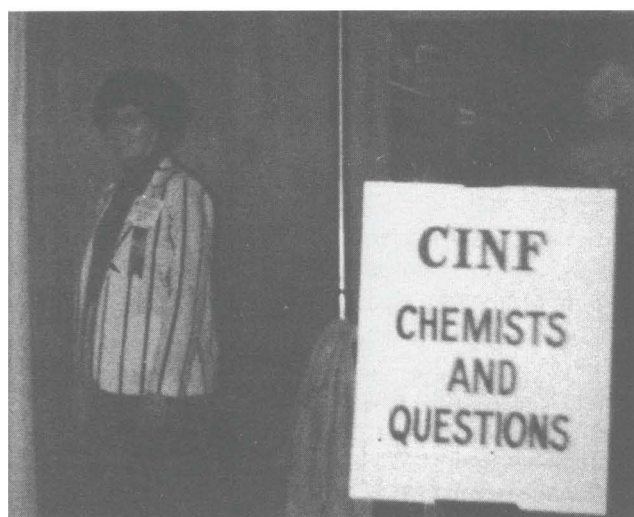
volunteered as spokesmen and actors. The Division was grateful for support provided by the E. I. DuPont Company for hosting all the participants and allowing the use of facilities for photography.

The tape was subsequently shown at the 187th ACS National Meeting in St. Louis in April 1984, at the 188th ACS National Meeting in Philadelphia in August 1984, at the 16th Central/18th Great Lakes ACS Regional Meeting in Kalamazoo, MI, in May 1984, at the ACS Delaware and Philadelphia Local Section meetings, at an ASIS meeting in Philadelphia, and before the Industrial Technical Information Managers Group (ITIMG) in Naperville, IL.

The tape was listed in the 1985 Catalog of ACS Videocourses and promoted by at least five other means. The production cost a total of \$17,269. Purchase price of the tape was \$275, rental \$80 per week. By the end of 1984, nine copies were sold. More copies were sold and rented in subsequent years which brought back \$6,300 to the Divisional Treasury. Originally, the recovery of expenditures was not expected.

Informing students and chemists about chemical information as a career option in chemistry has not been an easy task. Prior to creating the Careers Committee, the Division attempted to work with the ACS publications. For the Winter 1984/1985 issue of the *pHilter* (ACS Student Affiliates Newsletter), Ben H. Weil wrote an article on “Chemical Information Work - Satisfying Colleagues and Curiosity”, featuring interviews with Rosemarie Parker, William M. Anthony, Joanne L. Witiak, Karen Frieve, and David K. Johnson [Ref. 27].

In 1985, the Education Committee mailed a 23-page bibliography of available published guides and aids to chemical literature, compiled by Linda K. Heideman, Ann Razgunas, and Gary D. Wiggins [Ref. 25], to all chemistry departments that responded to the Committee’s 1984 questionnaire on instruction information. In 1986,



**Division displays its videotape “Chemists and Questions” at a 1984 ACS National Meeting, George R. Famini, Lois E. Fritts.**

the Committee completed a computer searching training module for CAS files on STN, as the first of an intended series. This was quickly followed by the DIALOG version. By September 1988, 276 STN modules and 226 DIALOG modules were distributed.

At the 191st ACS National Meeting in New York in April 1986, the ACS Committee on Professional Training (CPT) celebrated its 50th anniversary with a symposium "CPT 1936-1986, What Next?". Arleen N. Somerville contributed a paper on "Perspectives and Criteria for Chemical Information Instruction in the Undergraduate Curriculum". In 1989, the CPT published a commemorative 23-page booklet on that symposium.

At the same meeting, the Division cosponsored a symposium on "Using the Chemical Literature with Students Today" (Gary D. Wiggins; Carol A. Carr, organizers). Arleen N. Somerville reported on the activities of the Divisional Education Committee at that session.

For the ACS Division of Chemical Education, Barbara G. Wood organized a symposium on "Scientific Information: A Multi-Faceted Career" to which eight chemical information professionals (Barbara J. Peterson, Victoria K. Veach, Robert E. Buntrock, Peter F. Rusch, Carlos M. Bowman, Marianne C. Brogan, Sandra E. Erb, and Bonnie Lawlor) contributed. It was an early try to convince professors that chemical information offered viable, respectable careers.

In 1987, the Education Committee in conjunction with the Special Libraries Association (SLA) opened a Clearinghouse for Chemical Information Instructional Materials (CCIIM). It also incorporated the ACS Tomorrow's report recommendations on chemical information into its own agenda to promote education.

In 1988, the Careers in Chemical Information Subcommittee (David S. Saari, chairman) was formed to collect existing materials on careers, and to disseminate appropriate information to students or recent graduates. A Task Force (Carol A. Carr, chairman), working with the editorial staff of the *Journal of Chemical Education*, created two posters on chemical information, primarily dealing with online searching. The first 2' x 3' poster, "Chemical Information in the Computer Age. From Bits to Bytes: The Chemical Information Cycle", was published in Winter 1988 as part of the Journal's "Chemistry Currents" series. The second poster, "Chemical Information in the Computer Age. Online Chemical Databases - Many Paths to Information", was published in Summer 1989.

The ACS Education Division published in 1988 yet another booklet on "Careers in Chemistry: Questions & Answers", in which one section was devoted to "Non-traditional Careers in Chemistry", among them chemical information specialists [Ref. 29].

On November 1, 1989, as part of the National Chemistry Week, the Division sponsored a "Careers in Chemical Information" workshop in New York (Bruce Slutsky, organizer).

At the 201st ACS National Meeting in Atlanta in April 1991, Patricia E. O'Neill contributed a paper on "Chemical Information Industry: Opportunity Knocks" to a symposium on "Nontraditional Careers in Chemistry", organized by the ACS Younger Chemists Committee.

At the 202nd ACS National Meeting in New York in August 1991, the Executive Committee considered the request from William G. Town, chairman of the Board of Trustees of the Chemical Structure Association Trust for a contribution to an endowment to be used for assisting in the education of future information scientists and information specialists. The Division donated \$1,000.

Since 1991 Arleen N. Somerville continued to be successful in promoting chemical information instruction through the *Journal of Chemical Education*. She served as editor of "The Chemical Information Instructor" column, which debuted (with a specially designed cover) in the July 1991 issue, and as the author of "Information Sources for Organic Chemistry" published in the July 1991, October 1991, and May 1992 issues of the Journal. The latest article for the column was on "Subject Searching of Chemical Abstracts Online: Searching in the Basic Index", also by Arleen N. Somerville, published in the March 1993 issue of the Journal.

In 1992, the Careers Committee published "Salary Survey: Scientific Information Professionals with a Focus on Chemistry", compiled by Patricia E. O'Neill and Joanne L. Witiak. The compilation was based upon 589 responses to a 1991 salary survey and presented data correlating salary with such factors as time with employer, area, type of organization, group function, job function, and educational degree.

The compilation was favorably reviewed by Edward R. Silverman in the March 22, 1993, issue of *The Scientist*, with quotes from interviews with Patricia E. O'Neill, Arleen N. Somerville, Edlyn S. Simmons, Joseph E. Clark, and Victoria K. Veach [Ref. 39].

In 1992, the responsibility for the Clearinghouse for Chemical Information Instructional Materials (CCIIM) was assumed by Gary D. Wiggins of the Indiana University Chemistry Library. Under Carol A. Carr's leadership since the inception of the project in 1985, the collection of the CCIIM has grown to nearly 200 items dealing with publications such as Beilstein and Chemical Abstracts, and topics such as physical properties, nomenclature, and online searching.

In 1993, the Education Committee, recognizing that chemistry departments were facing new challenges with increased reliance on electronic access to information, decided to update the 1984 survey on "Chemical Information Instruction in United States Colleges and Universities":

- to reflect the current status of information instruction
- to recognize trends
- to identify how the Committee could best assist

The questionnaire was sent to all 595 chemistry departments that granted chemistry degrees in May 1992. Report on the survey is expected to be presented at the ACS National Meeting in Chicago in August 1993.

## 6. Publications, 1975-1993

### *Chemical Information Bulletin*

Consistent with the change in the Division's name, the Divisional bulletin acquired a new name, *Chemical Information Bulletin*, with Issue No. 2 of Volume 27, published in Fall 1975.

Under the editorship of Gabrielle S. Revesz (till Spring 1977), Bonnie Lawlor (Fall 1977-1982), and Margaret A. Matthews (1983-1993), the Bulletin has continued to be the prime vehicle of communication among the Division members, especially between the Divisional Executive Committee and members at large. A relatively small fraction of members regularly attends the Divisional meetings which have been almost exclusively conducted at the ACS National Meetings. But all members need to be informed about the technical programs, educational activities, membership benefits, and news about the profession.

The Bulletin has continued to include the abstracts of papers to be presented at the Divisional symposia and sessions, and frequently of those presented at the cosponsored symposia as well. This has allowed all the members to be familiar with the technical content of papers often reporting the most recent advances in and application of new technologies.

Incidentally, because of misunderstanding rather than by design, the *Information Science Abstracts (ISA)* in its two issues (Volume 22, No. 1 and 2/3, of January and February/March 1987, respectively) published 414 abstracts based on abstracts published in the *Chemical Information Bulletin* in the period 1983-1987. While the Division might have been flattered by the coverage of the Bulletin in the ISA, it became immediately obvious that this was a mistake since the ISA had not normally covered abstracts of presentations such as those published in the Bulletin.

Till 1977, the Bulletin was published twice a year. Between 1978 and 1990, it appeared three times a year: in spring prior to the Spring ACS National Meeting, in summer prior to the Fall ACS National Meeting, and in fall/winter. The third issue, usually mailed in December, contained as a rule the Membership Directory. Often enough, the cover of that issue had a different color, blue, green, or peachy, to distinguish it from the other two regular issues.

In 1991, two issues were published, because the third projected issue was moved to the following year. Starting with 1992, the first issue became an "administrative" issue with information for the members published at the beginning of the calendar year rather than at the end. It contained:

- Chairman's Message
- 1992 Milestone Calendar
- Call for Nominations
- 1992 Publication Schedules
- 1992 CINF Symposia
- Constitution and Bylaws
- Membership Directory
- 1992 CINF Committees
- 1992 CINF Functionaries

Advertisements have continued to be a big factor in reducing publication expenses. Especially successful were two Bulletin's Business Managers, Ruthann Bates (1986-1987) and Ronald R. Dueltgen (1989-1991). Since 1987 the revenue for advertisements exceeded the expenses. The average number of full-page advertisements was 21 per issue and there were a number of half- and quarter-page advertisements as well.

The Division has been grateful for the support provided by the Institute for Scientific Information (ISI) which since 1973 absorbed the cost of typing, artwork, and foreign postage.

### *CINF News*

From time to time, the Executive Committee discussed the publication of an interim newsletter to inform the Division members of pertinent matters