

*Our predecessors broke down many barriers to make sure that I am comfortable going into this field. Thanks to their hard work, I am allowed to concentrate on other things.*

Rachel Jameton

Visiting Faculty Member  
Evergreen State College  
Olympia Washington

**Chemical & Engineering  
News,**  
February 11, 2002, pg 45

## The Triennium, 1951 to 1954



**GLADYS A. EMERSON**  
**National President**  
**1951-1957**

During this period, the Regional Directors planned a series of regional meetings to celebrate the Fiftieth Anniversary of the founding of Iota Sigma Pi. The first was held by Region 3 at Ames, Iowa, on May 2-3, 1952, with Aurum as hostess chapter. Members from Aurum Iodide, Iridium, Iodine, Mercury and Aurum were in attendance. Nellie Naylor, regional director, presided. The business meeting discussed problems of alumnae records and distribution of **The IOTAN**. Seven new members were initiated. Various trips about the campus and a number of pleasant social events were enjoyed by the group. A Research Council lecture was given by Gladys A. Emerson, National President, on May 2. The subject described aspects of the physiology and chemistry of vitamin B<sub>12</sub>.

The second regional meeting was held by Region 1 at Berkeley and Palo Alto, California, on June 28 and 29, 1952. Members from Carbon, Hydrogen, Oxygen and Sulfur took part. The business session was presided over by Margaret Airston, Sulfur, the regional director. Members of the four chapters presented ten research papers. There were reports on studies of physical, organic, and biochemical problems, radioactive isotopes, nutrition and medical research. Four members of the National Council were present: Emerson, Morehouse, Smith and Morgan.

At a banquet on June 28, talks were given by charter members of the Pacific coast chapters: Myra Wynn Jordan of the Chem Fiends, 1902, the founders of the present Hydrogen chapter; Etta Watkins of Alchemia, later Sulfur chapter; M. Hutchings and L.A. Losche of Alchemia at Stanford, 1914, later Carbon chapter; and Agnes Fay Morgan of Chi Alpha Pi at the University of Washington, 1911, later Oxygen chapter. A regional research award was made to Marjorie

Young Vold, Sulfur, who was chosen as the recipient by the judges appointed by the four chapters. Four chapters had sponsored one candidate. Dr. Vold delivered the research paper on "The Challenge of Colloid Chemistry," at the banquet.

On June 29 an informal breakfast was enjoyed at Palo Alto, followed by visits to the Stanford chemistry laboratories.

The Second Iota Sigma Pi research award was made in 1952 in honor of the Golden Jubilee. The same rules used in 1951 were applied by the judges. Mary Louise Quaife of Distillation Products Industries of Rochester, New York, a member of Phosphorus chapter and sponsored for the candidacy by Palladium chapter, received the award. In her talk she described the chemical separation and determination of the tocopherols in blood plasma and serum, milk and other foods, animal and human tissues. These valuable findings have clarified the analytical problems involved in the study of the occurrence and the function of vitamin E.

Region 5, under the direction of H. Marjorie Crawford, held a meeting on December 5-6, 1952, at Pennsylvania State University with Palladium as hostess. Radium, Fluorine and Manganese chapters were represented and national officers Gladys A. Emerson and Anna Hoffman were present. Mildred Rebstock of Park, Davis and Company gave the Marie Curie lecture on the synthesis of compounds related to chloromycetin. The scroll and check for the 1952 research award were presented to Mary L. Quaife during this meeting.

Region 1, under director Margaret Airston, held another meeting in Los Angeles on March 15, 1953, with Sulfur as hostess. Sulfur initiated several members from Occidental and Immaculate Heart Colleges and from the University of California at Los Angeles as well as from the University of Southern California. National officers Emerson and Morehouse were present. Brief reports were made by Delegates from Carbon, Hydrogen and Sulfur chapters.

Region 3 met again with Nellie Naylor as director and Mercury as hostess in Minneapolis, October 15 and 16, 1953. Delegates from Aurum, Iodine, Iridium and Mercury participated. Research reports by representatives of Iodine, Mercury and Aurum, and an extensive program of field trips to laboratories with luncheons and a formal banquet made up the program.

Region 4 had informal meetings at Austin, Texas in December 1951 with Tellurium as hostess and at New Orleans in December 1953 with Chlorine as hostess. These meetings were held in connection with the Iota Sigma Pi breakfasts at American Chemical Society conventions.

A pictorial presentation of the Golden Jubilee meetings of Iota Sigma Pi appeared in Chemical and Engineering News, November 3, 1952.

### Eleventh Triennial Convention

This convention was held at Stanford University, Palo Alto, California, June 27-July 1, 1954, with Carbon chapter as hostess. Hydrogen was hostess on June 30, when all the delegates went to Berkeley for meetings, luncheon and the formal banquet. President Gladys A. Emerson presided. The delegates were

| Chapter      | Delegate               |
|--------------|------------------------|
| Aurum        | June Lomnes            |
| Aurum Iodide | Laura Pratt Erich      |
| Carbon       | Lorraine Winslow       |
| Chlorine     | Virginia Rice Williams |
| Hydrogen     | Mary E. Houston        |
| Iodine       | Mary Joan Sirotek      |
| Iridium      | Shirley Albrecht       |
| Mercury      | Mary E. Dempsey        |
| Oxygen       | Zalia Jencks Gailey    |
| Palladium    | Gladys Quinty Dawson   |
| Platinum     | Patricia Olsen         |
| Radium       | Shirley Wendel         |
| Sulfur       | Hallie F. Bundy        |
| Tungsten     | Peggy Cell             |
| Uranium      | Gertrude A. Lathrop    |

At this time Columbium, Helium, Indium, Kalium and Manganese were inactive. Fluorine, Nitrogen, Polonium and Tellurium while not inactive were not represented.

The chief changes in the Constitution and By-Laws approved were (1) revision of qualifications for membership in academic and professional chapters, (2) establishment of the category member-at-large to be promoted by the Regional Directors, (3) increase in the number of members of the National Council to eight by addition of the immediate Past President and the Coordinator of Regional Directors, (4) specification of the size (up to \$250) of the loans available to students from the Loan and Research Award Fund and the conditions for their award, (5) a favorable vote defined as two-thirds of the votes cast, (6) time for voting on petitions for new chapters increased from three to five weeks. Marjorie Crawford, Anna Hoffman and Marion C. Lange contributed much to the revision.

The convention voted to join the Association of College Honor Societies and to continue the Triennial Research Award and the program of Regional Directors. The national secretary reported that the total roll-call of members of Iota Sigma Pi, past and present, was 5075, and that 691 new members were initiated 1951-1954 with a total of 1269 active members. The National Editor reported 351 alumnae subscriptions to *The Iotan*. The second Triennial Research Award was made at a luncheon held at Palo Alto on June 28, 1954. The recipient was Donna B. Cosulich, alumna of

Carbon chapter and a member of the research staff of the American Cyanamid Company. Dr. Cosulich described her research on 1-leucovorin, a synthetic compound with properties identical with those of the natural citrovorum factor. Her work followed the order, synthesis-degradation-isolation, rather than the usual reverse order. This compound is important in the treatment of blood disorders.

At the banquet held at the Men's Faculty Club, University of California, Berkeley on June 29, 1954, the election of Agnes Fay Morgan as the ninth national honorary member of Iota Sigma Pi was announced.

The national officers were

President: Gladys A. Emerson, Carbon,  
Hydrogen, Aurum  
Vice-President: Margaret G. Morehouse,  
Sulfur  
Secretary: Virginia Rice Williams, Chlorine  
Treasurer: Gladys Q. Dawson, Palladium  
Editor: Elizabeth Knapp Smith, Oxygen

### The Triennium, 1954 to 1957

During this period the number of active chapters varied from 17 to 19. Helium, Indium, Kalium and Manganese remained inactive throughout. Fluorine and Polonium were inactive in 1954 but were reactivated in 1955. Nitrogen was added to the inactive list in 1956.

An outstanding development of this period was the rapid increase in the number of members-at-large who paid one dollar a year dues and received in return a copy of *The Iotan* and of any regional newsletters published. The dues collected were earmarked for the Convention and Research Award Fund. In 1954 there were 190 members-at-large; in 1955, 168; and in 1956, 178.

The usual Iota Sigma Pi breakfasts were held in connection with American Chemical Society conventions in Kansas City in March 1954 and in New York and in New Orleans in 1954 and 1955. In the latter case Chlorine was regional hostess chapter. Mercury took advantage of a similar occasion to call a short regional meeting in Minneapolis, September 13, 1955. Radium was hostess of the breakfast group at the Cincinnati meeting of American Chemical Society in April 1955, and two weeks later in San Francisco, during the convention of the Federation of American Societies for Experimental Biology, Hydrogen and Carbon arranged a luncheon for about 35 members including five of the national officers. In April 1956 the breakfast was held in Dallas, Texas, in connection with the 129th National meeting of the American Chemical Society with Chlorine as hostess. Some twenty-seven members were present, including several active and past members of the National Council. Pauline Beery Mack, dean of the College of Household Arts and Sciences in Texas Woman's University at Denton and a past

*Here about the beach  
I wander'd, nourishing  
a youth sublime  
With the fairy tales  
of science, and the  
long result of Time.*

Tennyson

*The Oxford Dictionary  
of Quotations*, 3rd ed.,  
Oxford University Press  
(1979)

## GOLDEN JUBILEE MEETINGS - 1952



**Members of Regional Group, Region 3, attending the Golden Jubilee meeting at Ames, Iowa, 1952**



### **Members attending the Golden Jubilee meeting of Region 1, Palo Alto, California, 1952**

Front row, L to R: Marjorie Vold, Helen Natheson, Phyllis Watson, Jane Fraenkel-Conrat. Second Row: \_\_\_\_, Alice Wood, Noriko \_\_, Elizabeth Knapp Smith, Margaret Morehouse, \_\_ Berisoff, Gladys Emerson, \_\_\_\_. Third Row: J.F. Clauson, Helen Souders, Lois Dunham, Lucy Rawlins, Margaret Airstun, Millie Thompson, \_\_ Hull, Agnes Fay Morgan, Katherine Ross, Carol Mosher, Etta Watkins, Priscilla Wheeler. Back Row: \_\_ Craig, Jean Grunland, Doris Chin, Ethelda Horberg Sassenrath, Jeanne-Marie Berghoim, \_\_\_\_, Louise Foering, \_\_\_\_, Anadel Brown, \_\_\_\_.



### **Golden Jubilee regional banquet at Berkeley, California, 1952**

L to R: Elizabeth Knapp Smith, Agnes Fay Morgan, Gladys Emerson, Marjorie Nelson, Phyllis Watson, Convention Chairman- Marjorie Vold, Margaret Airston

president of Iota Sigma Pi, spoke on the research program of her college. Virginia Bartow reported on the recent meeting of the Association of College Honor Societies. Allene R. Jeanes, Garvan medalist for 1956 and newly initiated into Uranium chapter, also spoke.

At the September 1956 meeting of American Chemical Society in Atlantic City, a similar breakfast was held under the leadership of Gladys A. Emerson and at Miami, Florida on April 10, 1957 under the auspices of Essie White Cohn.

### Twelfth Triennial Convention

This convention was held in Minneapolis at the University of Minnesota June 18-21, 1957, with President Gladys A. Emerson as chair. There were Delegates from twelve active chapters. Carbon, Fluorine, Polonium, Tellurium, Tungsten and Uranium were rated as active but did not send Delegates. The names of the Delegates and chapter membership follow.

| Chapter      | Delegate            |
|--------------|---------------------|
| Aurum        | Ursula Mai          |
| Aurum Iodide | Hoylande D. Young   |
| Chlorine     | Doris H. Thompson   |
| Helium       | Inactive            |
| Hydrogen     | Gladys Perez-Mendez |
| Indium       | Inactive            |
| Iodine       | Helen M. Schwarz    |
| Iridium      | Marjorie Deets      |
| Kalium       | Inactive            |
| Manganese    | Inactive            |
| Mercury      | Betty Lewis         |
| Nitrogen     | Inactive            |
| Oxygen       | Barbara B. Tews     |
| Palladium    | Wilma J. Hickman    |
| Platinum     | Sharon J. Tebow     |
| Phosphorus   | Inactive            |
| Radium       | Mary Gear Moore     |
| Sulfur       | Lynore E. Slaten    |

During the triennium, 398 new members were added in 18 chapters, making a total of 1110 active members. In addition 536 members-at-large paid one dollar each for which they received copies of **The Iotan**.

It was decided by this convention that the Federal Savings and Loan and the Research Award accounts should be consolidated and that the interest from this sum be used to pay for the Triennial Research Award. Nellie M. Naylor, Coordinator of Regional Directors, reported two regional meetings and promotion of the enlistment of members-at-large. Chapter visits were made by several of the Directors. The Regional Directors were active in obtaining news and articles from their chapters for use in **The Iotan**. Editor Elizabeth K. Smith reported that members of 16 chapters contributed articles on "My Job" in the 1955-1956 issue and seven chapters described their scholarship and research awards in the 1956-1957 issue.



### Golden Jubilee 1952

Carbon Chapter Charter Members, L to R: Etta Watkins, Sulfur; \_\_\_ Hull, Sulfur; Katherine Ross, Hydrogen; Agnes Fay Morgan, Oxygen

The Third Triennial Research Award was presented at the luncheon held at the University Club in St. Paul to Marjorie M. Nelson (Hydrogen) for her outstanding and long-time studies of nutrition in relation to reproduction. Her report to the convention was fascinating in detail and was received with enthusiasm. She found that some dietary deficiencies affected chiefly the maternal production of hormones, and others the occurrence of congenital abnormalities in the offspring. In the former group are chiefly pyridoxine (vitamin B<sub>12</sub>), protein, thiamine and potassium; in the latter riboflavin, vitamin A, pantothenic acid, vitamin E and folic acid. Both duration and severity of the deprivation affected the amount of congenital anomalies observed. The period of sensitivity to the teratogenic deficiencies seemed to be limited to the critical period of differentiation and organogenesis, as are the effects of irradiation. Important new insights into chemical embryology may well emerge from these studies.

The Delegates to this convention enjoyed interesting visits to industrial and university research laboratories and social contacts at the College of St. Catherine and at a formal banquet at the Lowell Inn in Stillwater, Minnesota.

The new National Council was as follows.

President: Hoylande D. Young, Aurum Iodide  
 Vice-President: Elizabeth Knapp Smith, Oxygen  
 Secretary: Elizabeth M. Osman, Iodine  
 Treasurer: Marjorie M. Nelson, Hydrogen  
 Editor: Essie White Cohn, Platinum  
 Historian: Agnes Fay Morgan, Hydrogen  
 Coordinator of Regional Directors: Nellie M. Naylor, Aurum  
 Past President: Gladys A. Emerson, Carbon, Hydrogen, Aurum, Sulfur

*Do not be afraid to speak up and present your ideas to others. Remember, you bring a fresh perspective to the company and can identify new and different solutions to problems.*

Jessica Parker

Emulsion Polymerization  
 Chemist  
 Atofina Chemicals

**Chemical & Engineering News**  
 February 11, 2002, pg 45



*My father made sure I  
understood what an atom  
was at a young age.*

Nicole S. Sampson

Associate Professor  
of Chemistry  
University of New York,  
Stony Brook

**Chemical & Engineering  
News,**  
February 5, 2001, pg. 42

## The Triennium, 1957 to 1960



**HOYLANDE D. YOUNG**  
**National President**  
**1957-1963**

During this period the revised Constitution and By-Laws were printed and distributed to chapters. Columbium chapter at Columbia University was reactivated with the help of Regional Director Elizabeth Ludlam. Twenty-one new members were initiated in February, 1958. The Regional Directors continued chapter visits and recruitment of members-at-large. A new chapter, Niobium, with twelve active members, was installed by Elizabeth K. Smith at Oregon State University, Corvallis, Oregon early in May 1960. Iota Sigma Pi breakfasts were held as usual twice a year in connection with the American Chemical Society national conventions, the first in San Francisco on April 16, 1958. On the same day at the Women Chemists luncheon at the Sheraton-Palace Hotel, Marjorie Young Vold, Sulfur, spoke of her experiences in India. At the fall meeting of the American Chemical Society in Chicago, the Iota Sigma Pi breakfast was held on September 9, 1958. President Hoylande D. Young presided at these breakfast meetings.

On April 7, 1959, fifteen Iota Sigma Pi members, including President Young, attended breakfast at the Statler Hilton Hotel in Boston. On September 15, 1959, Dr. Betty Osman, National Secretary, met with twenty-two members at the Hotel Dennis in Atlantic City. Seventeen members, including four national officers, attended a luncheon in Atlantic City during the meeting of the Federation of American Societies for Biological Research in April 1958.

## Thirteenth Triennial Convention

This meeting was held at Berkeley, California, June 14-17, 1960, with Hydrogen chapter as hostess. All national officers and delegates from all active chapters were present. The group was housed in the new modern dormitories just off the University of California campus.

| Chapter      | Delegate                 |
|--------------|--------------------------|
| Aurum        | Evelyn J. Webster        |
| Aurum Iodide | Gladys A. Eckfeldt       |
| Carbon       | Lois J. Durham           |
| Chlorine     | Eleanor Elder            |
| Columbium    | Marie McCarthy           |
| Fluorine     | Joan P. Lambros          |
| Hydrogen     | Jane Fraenkel-Conrat     |
| Iodine       | Karen Rover              |
| Iridium      | Roberta Bleiler          |
| Mercury      | Nobuko Mizuno            |
|              | Mabel Kief               |
|              | Janice R. Johnson        |
| Oxygen       | Victoria Sutter          |
|              | Marjorie Omori           |
| Palladium    | Celestine Tillman        |
| Platinum     | Patricia P. Nixon        |
| Polonium     | Anna N. DeKonschin       |
| Radium       | Mary Catherine Schneider |
| Sulfur       | Erlinda Aragonas         |
|              | Mai Young Park           |
| Tungsten     | Alice Adams              |
| Uranium      | Patsy Kay Costner        |

Affiliation of students from Seattle University with Oxygen and of Xavier College and Western College for Women with Radium was approved. A national initiation fee was approved to pay for copies of the History, the current **Iotan**, the Constitution and By-Laws, and a membership certificate to be presented to each initiate. The amount of the Research Award was increased from \$200 to \$300 and travel expenses of the recipient up to \$200 allowed. It was also approved that Iota Sigma Pi withdraw from membership in the Association of College Honor Societies. The Delegates enjoyed many social events as well as trips to the Livermore Radiation Laboratory, the Concannon Winery, the laboratories of the Shell Development Company and many of the University of California laboratories.

The Fourth Triennial Research Award was made at the closing banquet held at the Men's Faculty Club of the University of California. The recipient was Evelyn L. Oginsky, Associate Professor of Bacteriology at the University of Oregon Medical School. She presented an interesting and impressive account of her work on the microbial metabolism of 5-hydroxyindolic compounds. Mammalian tissues metabolize 5-hydroxytryptophan to the corresponding tryptamine (serotonin) and oxidize the latter to 5-hydroxyindoleacetic acid which is excreted in the

urine. Bacteria were isolated which oxidize 5-hydroxytryptophan to the kynurenine stage and split this to yield 5-hydroxyanthranilic acid. These organisms can also oxidize 5-hydroxyindoleacetic acid and two of them oxidize 5-hydroxytryptamine by a pathway not involving 5-hydroxyindoleacetic acid as an intermediate. Whether this pathway is also available to mammalian tissues remains to be discovered.

At the close of the banquet, President Hoylande D. Young presented Nellie M. Naylor a Certificate of Appreciation for her forty years of untiring leadership in the society and especially for her work with the Regional Directors and the members-at-large. There were 284 members-at-large in 1958, 308 in 1959 and 343 in 1960.

The usual Research Award luncheon was held at the College Women's Club where the name of the award recipient was first disclosed. Agnes Fay Morgan gave an illustrated talk on her new California Experiment Station bulletin, "Nutritional Status, U.S.A."

Women in the atomic age was the theme of an evening research program, led by Hoylande Young and followed by reports on isotonic studies by Lola Kelley of Hydrogen and Nobuko Mizuno of Mercury.

New definitions of the standards to be met by groups petitioning for new chapters or for affiliation with existing chapters were discussed and set forth for submission to the chapters.

The officers elected and/or installed for the new triennium were  
President: Hoylande D. Young, Aurum Iodide  
Vice-President: Jane Fraenkel-Conrat, Hydrogen  
Secretary: Charlotte E. Roderuck, Aurum  
Treasurer: Marjorie M. Nelson, Hydrogen  
Editor: Peggy Mayfield Dunlap, Tellurium  
Historian: Agnes Fay Morgan, Hydrogen  
Regional Coordinator: Nellie M. Naylor, Aurum  
Past President: Gladys A. Emerson, Carbon,  
Hydrogen, Aurum, Sulfur

### The Triennium, 1960 to 1963

Vice President Jane Fraenkel-Conrat and her committee were active in extension. Plutonium, the twenty-eighth chapter to be admitted, was organized at Purdue University with sixteen members, some of whom were already members in other chapters. The initiation which took place in February 1963, included seven students from Marian College, Indianapolis, members of an Iota Sigma Pi club. Most of the charter members were faculty or graduate students and staff members, some of whom had already achieved the Ph.D. degree. Plutonium has all the qualities to make it a distinguished and substantial chapter.

Tellurium Chapter at University of Texas was reactivated in 1962 as was Helium early in 1963 after long periods of inactivity. Former sponsor Dr. Blanche Sommers agreed to reinstatement of Helium and expressed herself as convinced that the society is important to women in chemistry and allied fields.

Osmium, at Ohio State University, applied for admission and was installed as a chapter on June 10, 1963, at Western Reserve University.

A new edition of the History of Iota Sigma Pi, spanning the years from 1927-1968, was edited by Agnes Fay Morgan, first Permanent Historian, and published.

The 1960 convention recommended several changes in the Constitution and By-Laws which were circulated to the National Council and the chapters for validation. Article II of the Constitution was revised to define more clearly the standards for colleges and universities at which academic chapters may be established in addition to those institutions on the approved list of the American Chemical Society. Iota Sigma Pi clubs were defined as groups organized in eligible institutions not able to support a chapter and not close enough to an active chapter for affiliation. The establishment of such clubs must be approved by three-fourths of the National Council.

Article III, Clause L of the By-Laws was elaborated to define more closely the qualifications of graduate women in industry or research who are eligible for membership.

All these changes were ratified by Council and chapters.

Marjorie M. Nelson, National Treasurer in 1962, circulated an amendment to Section 4 of the Constitution upon the advice of the Internal Revenue Service. This amendment to the By-Laws, Article VIII, Clause 9, insured that in the event of dissolution or liquidation of the society, its assets will be distributed to nonprofit organizations as designated by the National Council. The amendment also involved the addition of a phrase requiring any chapter which returns its charter to the National Council to return also all remaining financial assets to the National Treasury, or to the college or university, or other nonprofit or charitable organization. This was necessary if the society was to maintain its tax-free status. It seemed necessary also that each chapter amend its local constitution in the same way. The Council and the chapters accepted this amendment.

Iota Sigma Pi breakfasts were held September 13, 1960, at the Governor Clinton Hotel in New York during the 138th National Meeting of the American Chemical Society and on March 24, 1961, during the similar meeting in St. Louis.

*Don't make an issue of  
being a woman.*

Carol Crosthwaite



**Delegates to the Thirteenth Triennial Convention  
Berkeley, California, 1960**

Delegates from left to right: Back Row: Patsy Costner, U., Mabel Kief, Nb, Eleanor Elder, Cl, Mary Schneider, Ra, Alice Adams, W., Joan Lambros, F, Marie McCarthy, Cb, Patricia Nixon, Pt, Victoria Sutter, O, Marjorie Omori, O. Second Row: Lois Durham, C, Gladys Eckfeldt, AuI, Celestine Tillman, Pd, Evelyn Weber, Au, Karen Rover, I, Nobuko Mizuno, Hg. Front Row: Jane Frankel-Conrat, H, Roberta Bleiler, Ir, Erlinda Aragonés, S, Anna DeKonschin, Po.

Hoylande Young was present and presided on each of these occasions.

On September 6, 1961, Iota Sigma Pi members met in the afternoon during the Chicago meeting of the American Chemical Society. Many distinguished members, especially of Aurum Iodide, were present.

An unusually interesting breakfast was held on March 23, 1962, in Washington, D.C. during the 141st National Meeting of the American Chemical Society with Hoylande Young presiding.

Many members assembled at the Women Chemists' luncheons held April 7, 1960, in Cleveland, with Helen Hunscher as speaker on the "Misuse of Science," and on September 14, 1960, in New York at the Statler-Hilton Hotel, with Marie Farnsworth as the speaker.

As noted in the history of Hydrogen Chapter, the able and devoted National Treasurer Marjorie M. Nelson died late in November 1962. This was a severe loss to the National Council and to Hydrogen Chapter. Florence McLelland a long time friend of Marjorie Nelson, was authorized by the National Council to take over the Treasurer's office for the remaining interval before the convention in June 1963.

The Fourteenth Triennial Convention was set for the second week in June 1963, at Cleveland, Ohio, with Fluorine chapter as hostess. Helen Skowronska was local chairman of arrangements.

Former National President Essie White Cohn, long-time sponsor of Platinum Chapter, died early in March 1963. Iota Sigma Pi and all women chemists owed much to Dr. Cohn especially for her efficient administration of the work of the Women's Service Committee of the American Chemical Society.

### **Fourteenth Triennial Convention**

The fourteenth convention was held at Western Reserve University, Cleveland, Ohio, June 10-13, 1963, with Fluorine the hostess chapter and National President Hoylande D. Young in the chair. The chapter roll call included

| Chapter      | Delegate                            |
|--------------|-------------------------------------|
| Aurum        | Jane Elmore                         |
| Aurum Iodide | Frances K. Seabright                |
| Carbon       | Lois J. Durham                      |
| Chlorine     | Helen E. Levy                       |
| Fluorine     | Barbara Lee Edsell                  |
| Hydrogen     | Amy C. Funk                         |
|              | Victoria Gillmeister<br>(alternate) |
| Iodine       | Violet I. Imhof                     |
| Iridium      | Teresita B. Hernandez               |
| Mercury      | Marie H. Berg                       |
| Niobium      | Johanna D. Landsberg                |
| Osmium       | Dorothy E. Darling                  |
| Oxygen       | Meredith Appelbury                  |
| Platinum     | Yvonne Edwards                      |
| Plutonium    | Nina P. Matheny                     |
| Polonium     | Maureen Harris                      |
| Radium       | Sally Ann Vonderbrink               |
| Sulfur       | Millie A. Thompson                  |
| Tungsten     | Rosemary A. Davidson                |
| Uranium      | Nancy Rodman                        |

Also present were Dr. Frank Hovorka, Fluorine Chapter sponsor; four members from Fluorine, Helen Skowronska, Ivie Loe Smith, Jeanette Grasselli, and Joan Lambros; one member from Iodine, Marilyn Magnuski; four members from Radium, Anna L. Hoffman, Frances L. Hyslop, Violet M. Diller, and Elizabeth Ludlam.

The convention approved the establishment of "clubs" at colleges which do not have enough qualified women students to establish a chapter. The formation of Metropolitan Chapters, composed of professional women as well as undergraduate and graduate students in one or more colleges or universities in the area was also approved.

The Research Award was presented to Dr. Maxine Frank Singer at the Research Award Luncheon held Wednesday, June 12, 1963.

Dr. John C. Bailar, Jr., Professor of Inorganic Chemistry, University of Illinois, was the guest speaker at the banquet held Thursday, June 13, 1963. The title of his address was "Isomerism - Inorganic and Organic".

The officers elected and/or installed for the fifteenth triennium (1963-1966) were

President: Jane Fraenkel-Conrat, Hydrogen  
 Vice-President: Gertrude M. Perlmann, Columbium  
 Secretary: Nobuko Misuno, Mercury  
 Treasurer: Lois Durham, Carbon  
 Editor: Joan P. Lambros, Fluorine  
 Historian: Virginia Williams, Chlorine  
 Coordinator of Regional Directors: Marie Berg, Mercury  
 Past President: Hoylande D. Young

## The Triennium 1963 to 1966



### JANE FRAENKEL-CONRAT National President 1963-1966 1969-1972

Gertrude M. Perlmann, National Vice President of Iota Sigma Pi, was the 1965 recipient of the Garvan Award presented by the American Chemical Society.

Vanadium at Fordham University was installed on January 16, 1965, and Neptunium at the University of Houston, on March 9, 1966. Manganese at Hunter College in New York City was reactivated. Three new Regional Directors were appointed Mary Good, Section 4 (Cl, He, Te, U) Anna Hoffman, Section 5 (F, Os, Ra, Pu) Miriam Reiner, Section 6 (Cb, Pa, Po, V)

Elizabeth Ludlam, Past Regional Director of Section 5, passed away in October, 1964.

### Fifteenth Triennial Convention

The fifteenth convention was held at Oregon State University, Corvallis, Oregon, June 12-15, 1966,



### Delegates to the Fifteenth Triennial Convention Corvallis, Oregon, 1966

First Row, Left to Right: Barbara Jane Barker, Marty Ownbey, Kathy Marie McKenna, Margaret A. Smith, Elizabeth Henderson, Margaret D. Doyle, Edith S. Bartley, Carol Bossert, Barbara J. Drescher, Marcia L. Bengs, and Anne Deeney. Second Row, Left to Right: (Mrs.) Frances Seabright, Anne Radcliffe, Marion Terry Laico, Lotte Arnich, Nellie M. Payne. Third Row, Left to Right: Bonnie Jean Schein, Donna Bakale, LaNelle Geddes, Barbara Maciejewski, and Lois Durham.

with Niobium the hostess chapter, and as President Jane Fraenkel-Conrat in the chair.

The chapter roll call included

| Chapter      | Delegate                 |
|--------------|--------------------------|
| Aurum        | Lottie Arnich            |
| Aurum Iodide | Frances Seabright        |
|              | Nellie Payne (alternate) |
| Carbon       | Lois J. Durham           |
| Chlorine     | Elizabeth Henderson      |
| Columbium    | Emma D. Stecher          |
| Fluorine     | Donna Kutsko Bakale      |
| Hydrogen     | Margaret Smith           |
| Iodine       | Marcia Bengs             |
| Mercury      | Margaret D. Doyle        |
| Neptunium    | La Nelle Geddes          |
| Niobium      | Anna Deeney              |
| Osmium       | Barbara Maciejewski      |
| Oxygen       | Bonnie Bosco Schein      |
| Palladium    | Kathryn McKenna          |
| Plutonium    | Martha Ownbey            |
| Radium       | Barbara Barker           |
| Sulfur       | Marion Laico             |
| Tellurium    | Emily Bossert            |
| Tungsten     | Anne Radcliffe           |
| Uranium      | Edith Bartley            |
| Vanadium     | Barbara Drescher         |

Sue Hanlon, Chlorine and Evelyn Oginsky, Niobium were also present.

The Research Award was presented to Dr. Sue Hanlon, Chlorine, at the Research Award Luncheon. Dr. Hanlon's address was "Chemical Transformation of the Peptide Group during Helix-coil Transitions".

Dr. Dorothy Crowfoot Hodgkins, Cambridge, England, and Dr. Gladys A. Emerson, Carbon, were named Honorary Members.

Dr. Norton M. David, Professor of Chemical Engineering, University of Washington, was the



**Delegates to the Sixteenth Triennial Convention  
Boulder Colorado, 1969**

Delegates from left to right: Front: Beth Ellis Svoboda, F; Lydia Ann Melcher, Te; Janice Hoskins, U; Rosalind Klaas, AUI; Naomi Goldsmith, H; Suetta Lilley, Nb; Emma Stecker, Betty Barr, Np. Back: Francis Shiota, Hg; Violet Diller, Ra; Celia Mae Scott, O; Sarah Herbert, W; Sue Helzer, Au; Ellen D. Oliver, Cl; Donna L. Berglund, Os; Billie Jean Henry, Pd; Joanne Stover, Va.

guest speaker at the banquet. His topic was "UNESCO Science and International Service".

The officers elected and/or installed for the sixteenth triennium (1966-1969) were

President: Clara A. Storvick, Oxygen  
Vice President: Nellie Payne, Aurum Iodide  
Treasurer: Lois Durham, Carbon  
Secretary: Nobuko S. Mizuno, Mercury  
Editor: Lottie Arnrich, Hydrogen  
Historian: Virginia Williams, Chlorine  
Coordinator of Regional Directors: Marie H. Berg, Mercury  
Past President: Jane Fraenkel-Conrat, Hydrogen



**Golden Jubilee regional banquet Berkeley, California, 1952**

Charter Members of "Chemistry Fiends", Hydrogen Chapter  
L to R: Myra Wynn Jordan, Katherine Magnuson Ross, Alice Horwege

## The Triennium 1966 to 1969



**CLARA A. STORVICK  
National President  
1966-1969**

Nellie Payne, Vice President, installed Americium at Boston University on May 1, 1968. Hydrogen and Oxygen became Metropolitan Chapters.

Dr. Gertrude Perlmann was elected National Honorary Member, but, because of illness in her family she was unable to attend the 1969 Triennial Convention.

Dr. Florence H. Seibert, Ytterbium, a National Honorary Member, published a book, **Pebbles on the Hill of a Scientist**. Proceeds from the sale of the book were given to the Iota Sigma Pi Scholarship Fund.

### Sixteenth Triennial Convention

The sixteenth convention was held at the University of Colorado, Boulder, Colorado, from June 8-11, 1969, with Tungsten the hostess chapter, and President Clara Storvick as chair.

The chapter roll call included

| Chapter      | Delegate           |
|--------------|--------------------|
| Aurum        | Susan Helzer       |
| Aurum Iodide | Rosalind Klaas     |
| Chlorine     | Ellen D. Oliver    |
| Columbium    | Emma Stecher       |
| Fluorine     | Beth Svoboda       |
| Hydrogen     | Naomi F. Goldsmith |
| Manganese    | Emma Stecher       |
| Mercury      | Frances Shiota     |
| Neptunium    | Betty Barr         |
| Niobium      | Suetta Lilley      |
| Osmium       | Donna Berglund     |
| Oxygen       | Celia Mae Scott    |
| Palladium    | Billie Jean Henry  |



|           |                   |
|-----------|-------------------|
| Radium    | Violet Diller     |
| Tellurium | Lydia Ann Melcher |
| Tungsten  | Sarah Herbert     |
| Uranium   | Janice Hoskins    |
| Vanadium  | Joan Stover       |

Other participants were Mary Good, Chlorine; Agnes Hansen, Mercury; Anna Hoffman, Radium; and Mary Ann Kellogg and Suellen Ferraris, Tungsten.

During the convention, tribute was given to Iotans who passed away during the triennium: Phoebe N. Lindquist, Jessie McMahon, Inez Prudent, Laura M. Taggart, and Ann E. White, Aurum; Helen G. Robinson and Donald N. Smith, Fluorine; Agnes Fay Morgan, Hydrogen; Mildred W. Ingraham, May Ann Michl, and Ferne K. Moussan, Iodine; Grace Medes and Ethel Phelps, Mercury; and Andreas Sanandres, Vanadium.

A special commemorative program honoring Agnes Fay Morgan was held the evening of June 9, with chamber music and comments on her professional career by Dr. Virginia Williams and as a person by Dr. Jane Fraenkel-Conrat. During this program the Research Award was presented to Dr. Mary L. Good, Chlorine. Her acceptance address was "Use of Mossbauer Effect, in Elucidation of Structure of Coordination Compounds".

Dr. Leona Marshall Libby, Department of Physics, University of Colorado, gave the banquet address on Wednesday, June 11. Her topic was "Quarks, Nuclear Fission and Nuclear Fusion".

The officers elected and/or installed for the seventeenth triennium (1969-1972) were

President: Jane Fraenkel-Conrat, MAL  
 Vice-President: Nellie M. Payne, Aurum  
 Iodide  
 Treasurer: Violet Diller, Radium  
 Secretary: Frances Ostertag, Mercury  
 Editor: Anne Deeney, Niobium  
 Historian: Virginia Williams, Chlorine  
 Coordinator of Regional Directors: Marie H. Berg, Mercury  
 Past President: Clara A. Storvick, Niobium

### The Triennium 1969 to 1972

Mrs. G. W. Rimson was appointed to replace Editor Anne Deeney, who resigned because of illness. Sister Antonius Kennelly replaced Frances Ostertag, who resigned as Secretary.

Nellie Payne installed Cobalt as a metropolitan chapter in Indianapolis, Indiana, on May 7, 1971. The charter petition by Curium at American University was unanimously granted by the National Council.

A donation of \$300.00 was given to the Garvan Award Fund as a memorial to Dr. Virginia Williams, who passed away June 16, 1970.



**Delegates to the Seventeenth Triennial Convention  
Cincinnati, Ohio, 1972**

Zalia J. Gailey Rowe, Oxygen, National President from 1921-1927, and Emma Perry Carr, first Iota to receive the Garvan Medal and Sixth National Honorary Member, also passed away during the triennium.

Dr. Ruth Benerito, Chlorine, received the Garvan Award in 1970, and Dr. Jean'ne Shreve, Mercury, received it in 1972.

Interim Council meetings were instituted to facilitate and coordinate work of Council and Iota Sigma Pi as a whole.

### Seventeenth Triennial Convention

The seventeenth convention was held at the University of Cincinnati, Cincinnati, Ohio, June 12-16, 1972, with Radium the hostess chapter, and National President Jane Fraenkel-Conrat as chair.

The chapter roll call included

| Chapter      | Delegate                  |
|--------------|---------------------------|
| Aurum        | Beverly Schaad            |
| Aurum Iodide | Anne Sherren              |
| Chlorine     | Mary Good                 |
| Cobalt       | Sister Mary Rose Stockton |
| Fluorine     | Barbara Mueller           |
| Hydrogen     | Mildred Bennett           |
| Iodine       | Janine Collard            |
| Mercury      | Daphne Hill               |
| Neptunium    | La Nelle Geddes           |
| Niobium      | Nancy Good                |
| Oxygen       | Celie Mae Scott           |
| Plutonium    | Avanelle Kirksey          |
| Radium       | Andrea White Eberle       |
| Vanadium     | Sister Beatrice Darragh   |

Other participants were Dr. Helen Dyer, Honorary Member; Dr. Janet Del Bene, Research Awardee; Hoylande Young Failey, Aurum Iodide; Joan Lambros, Fluorine; Evelyn Oginsky, Oxygen; Eleanor Behrmann, Vera Lambert, Judith Long, Dorothy Phillips, Else Schulze, Nancy Ulmer, Radium; and Lydia Melcher and Shirley Norton, members-at-large.

*I believe such an honor society is both useful in encouraging women in chemistry and in helping them solve problems related to their careers which are often unique to women.*

Darleane C. Hoffman

Professor of the Graduate School, Dept. of Chemistry, University of California, Berkeley & Faculty Sr. Scientist, Heavy Element Nuclear & Radiochemistry Group, Nuclear Science Division, Lawrence Berkeley National Laboratory, Berkeley, CA

A special commemorative program honoring Dr. Virginia R. Williams was held the evening of June 13 with chamber music and an inspiring commemoration by Dr. Mary Good. During this program the Agnes Fay Morgan Research Award was presented to Dr. Janet Del Bene, Radium. Her address was "Molecular Orbital Theory of the Hydrogen Bond".

Dr. Betty Sullivan, Mercury, elected one of the National Honorary members, was to have given the address "Consulting Organizations with Particular Reference to the Chemist", but due to injuries sustained in an accident she was unable to attend the convention. Dr. Helen Dyer, Polonium, the second National Honorary Member, was the Banquet Speaker. Her topic was "Cancer Research, Past and Present".

A new dues structure recommended by the National Treasurer, Violet Diller, was approved. The membership of Iota Sigma Pi shall consist of regular members, student members, emeritus members, life members, and special members.

Mary Good reported on her activities as the first woman on the Board of Directors of the American Chemical Society. Joan Lambros, Chairman of the Women Chemists Committee Clearing House, told of the work being done by her committee.

The position of Membership Chairman, whose duties will be to bill members for dues and to keep a membership file of dues-paid members, was approved.

The convention approved replacement of the annual publication, **The Iotan**, by a series of three or four newsletters to be published throughout the year.

The officers elected and/or installed for the nineteenth triennium (1972-1975) were

President: Joan P. Lambros, Fluorine  
Vice-President: LaNelle Geddes, Neptunium  
Treasurer: Violet Diller, Radium  
Secretary: Sister Antonius Kennelly, Mercury  
Editor: Beth E. Svoboda, Fluorine  
Historian: Sister Mary Rose Stockton, Cobalt  
Coordinator of Members-at-Large: Avanelle Kirksey, Plutonium  
Director: Anne Sherren, Aurum Iodide  
Director: Jean'ne Shreve, Mercury  
Past President: Jane Fraenkel-Conrat, Member-at-Large

## The Triennium 1972 to 1975



**JOAN P. LAMBROS**  
National President  
1972-1975

Two interim meetings helped facilitate business of the National Council. The first meeting was held August 26, 1973, in the Astoria Room, Conrad Hilton Hotel, Chicago, Illinois with Gladys Eckfeldt, Aurum Iodide, hostess; the second, July 6, 1974, was held in the Seminar Room, Marian College Library, Indianapolis, Indiana, with Sister Mary Rose Stockton, Cobalt, hostess.

National Council appointed Gladys Eckfeldt, Aurum Iodide, the first Membership Chairman. The membership files were updated, members received individual bills for dues, and payment was made directly to the National Treasurer.

Members-at-Large were reorganized. They were given the right to send delegates to national conventions, were put on the mailing list for all publications, and were given voting privileges. Their dues were changed to be the same as regular members. It was agreed that they would be represented on National Council by the Coordinator of Members-at-Large.

**The Iotan Newsletter** was published three times a year and was the primary news medium and means of communicating all important items to members. Direct mailing of the **Newsletter** to each member was begun.

Because of direct mailing to all members, chapter voting on necessary changes was eliminated in favor of individual members voting.

A student-at-large category was established. A woman in any approved college or university that does not have a chapter of Iota Sigma Pi may

petition National Council to become a member-at-large.

An annual award has been instituted to be given to the outstanding woman senior undergraduate chemistry student in the United States. The first Iota Sigma Pi National Undergraduate Award for Excellence in Chemistry was given to Lynne Shapiro Carone.

Curium, American University, Washington, D.C., was installed on February 3, 1973, by Past President, Jane Fraenkel-Conrat; Ruthenium, Rutgers University, New Brunswick, New Jersey, was installed by President, Joan Lambros, on May 3, 1974.

After all efforts made to reactivate them failed, the following chapters were declared inactive by National Council: Americium, Carbon, Helium, Iridium, Manganese, Osmium, Platinum, Polonium, Sulfur, and Tungsten.

Dr. Mary L. Good, Chlorine, received the Garvan Award in 1973.

Each National Council officer spent three years revising, adjusting, and suggesting how to make her particular office and duties work smoothly into the duties of the National Council as a whole, *i.e.*, to work as a team.

### Eighteenth Triennial Convention

The eighteenth convention was held at the University of Houston, Houston, Texas, from June 14-19, 1975, with Neptunium the hostess chapter and President Joan Lambros as chair.

The chapter roll call included

| Chapter          | Delegate                                                               |
|------------------|------------------------------------------------------------------------|
| Aurum            | Jane A. Schmidt                                                        |
| Aurum Iodide     | Eunice Kreider                                                         |
| Chlorine         | Betty Jean Dowty                                                       |
| Cobalt           | Carolyn Patterson                                                      |
| Curium           | Rosalie M. Angeles                                                     |
| Fluorine         | Mayron Ruchelman                                                       |
| Hydrogen         | Nancy C. Lu                                                            |
| Mercury          | Lynda Ellis                                                            |
| Neptunium        | Doris C. Warren                                                        |
| Niobium          | Joy S. Hathaway                                                        |
| Oxygen           | Margaret (Kit) Ellis Goodrich                                          |
| Plutonium        | Ching Siang Yeh                                                        |
| Radium           | Elizabeth Becker                                                       |
| Tellurium        | Elsie M.B. Sorensen                                                    |
| Uranium          | Francine Howard                                                        |
| Vanadium         | Celia Menendez-Botet                                                   |
| Members-at-Large | Barbara Barker<br>Theodora Edwards<br>Eurilla Mayerle<br>Miriam Reiner |

Kathy Erwin, Uranium, and Nina Matheny Roscher, Curium, were present as alternate



**Delegates to the Eighteenth Triennial Convention  
Houston, Texas, 1975**

delegates. Other participants were Hoylande Young Failey and Marlene J. Godsel, Aurum Iodide; Sister Hilary Beck, Bonnie Chance, Melanie Cooper, Erma Evans, Mary E.M. Hindman, Thema Lee, Mamie Moy, Michele Stafford, and Donna R. Vrba, Neptunium; Amy LeVesconte and Ivy M. Parker, Tellurium; and Beverly Schaad and G. Anne Van Rheim, Member-at-Large.

The Agnes Fay Morgan Research Award was presented to Dr. Giovanna Ferro-Luzzi Ames, Hydrogen, University of California, Berkeley. Her acceptance address was "Bacterial Cell Membrane: Structure and Function".

Dr. Ruth H. Benerito, Chlorine, was named the 1975 Honorary Member of Iota Sigma Pi. Her address was "200 Years of an Eternal Delight".

A memorial service was held during the evening of July 14, honoring Anna Hoffman, Pauline Beery Mack, and Gertrude Perlmann. The tribute to Anna Hoffman was given by Violet Diller, that to Pauline Beery Mack by Anne Sherren, and to Gertrude Perlmann by Jane Fraenkel-Conrat.

A dues increase from eight dollars to ten dollars for regular members and from five dollars to six dollars for student members was agreed upon for the nineteenth triennium. It was also agreed that the initiation fee, which include the current year's dues, should remain at six dollars, but that initiates should also pay dues for the following year at the time of initiation.

Iota Sigma Pi will become a member of the Federation of Organization for Professional Women for the year 1975-76. If after the first year continued membership in the organization seems worthwhile, membership will be renewed.

The founding date of Iota Sigma Pi was established as 1902. The national secretary was commissioned to have a new seal made with this date on it. The

*Chemistry does not always fit neatly into an eight-to-five schedule. My husband and I often ask ourselves how we will find the time for children someday. We know it will require greater compromise and flexibility in our schedules.*

Kathie McReynolds

Assistant Professor  
Chemical Dept.  
California State  
University, Sacramento

#### **Chemical & Engineering News**

February 11, 2002, pg 46

officers elected and/or installed for the triennium 1975-1978 were

President: Violet Diller, Radium  
Vice-President: Nina Matheny Roscher, Curium  
Treasurer: Beverly Schaad, Oxygen  
Secretary: Barbara Barker, Member-at-Large  
Editor: Doris Warren, Neptunium  
Historian: Sister Mary Rose Stockton, Cobalt  
Coordinator of Members-at-Large: Eunice Kreider, Aurum Iodide  
Membership Chairman: Beth Svoboda, Fluorine  
Director: Anne Sherren, Aurum Iodide  
Director: Kit Goodrich, Oxygen  
Past President: Joan P. Lambros, Fluorine

### **The Triennium 1975 to 1978**



#### **VIOLET DILLER**

##### **National President**

**1975-1978**

Two interim meetings were held by National Council: the first, June 26-27, 1976, in the Yorkshire West Room of Holiday Inn-Chicago West in Melrose Park, Illinois; the second, August 27, 1977 in the Columbus Room of Chicago Pick-Congress Hotel.

The President, Violet Diller, was authorized to purchase one thousand 75th Anniversary seals to be distributed to the chapters.

Membership in the Federation of Organizations for Professional Women was renewed for another year. Jane Fraenkel-Conrat, Eunice Kreider, and Rosemarie Ostwald were named Iota Sigma Pi regional representatives associated with F.O.P.W. Radium Chapter proposed the establishment of an Iota Sigma Pi National Graduate Women's Research Award. National Council approved the proposal. The Award will be known as the Anna

Louise Hoffman Award for Outstanding Achievement in Graduate Research.

Susan Kelly and Sister Antonius Kennelly were approved to finish the terms of office made vacant by the resignation of MAL Coordinator, Eunice Kreider, and Membership Chairman, Beth Svoboda, respectively.

Violet Diller was authorized to purchase twelve Lucite covered walnut frames for the Iota Sigma Pi National Awards.

A bimonthly newsletter, **Operation Guide for Chapter Officers**, to be sent to Chapter officers and National Council Members by the President, beginning October 1977, was approved.

The age requirement of not more than forty years of age was reaffirmed for the Agnes Fay Morgan Research Award.

The National Council approved Helen Free as the National Honorary Member for 1978.

Iota Sigma Pi contributed three hundred dollars to the American Chemical Society to supplement the Garvan Medal Fund in the name of Anna Louise Hoffman; the money was taken from interest earned by the Research Award and Scholarship Fund.

The following pronouncement on the admission of men was made:

The National Council, after carefully considering the question as to whether the Constitution be changed to admit men to membership in Iota Sigma Pi, deciding that there appears to be a continuing need for organizations of women to be concerned with the needs of women in all facets of modern life and since the efforts that Iota Sigma Pi had made for seventy-six years to advance the position of women in chemistry and allied fields are needed just as much today as they were in 1900, voted unanimously not to change the constitution with respect to this matter.

### **Nineteenth Triennial Convention**

This convention was held June 18-22, 1978, at the Pick-Congress Hotel in Chicago, Illinois, with Aurum Iodide the hostess chapter and President Violet Diller as chair. The Chapter Roll Call was

| <b>Chapter</b> | <b>Delegate</b>      |
|----------------|----------------------|
| Aurum          | Deanne Lynn Snavelly |
| Aurum Iodide   | L. Jewel Nicholls    |
| Chlorine       | Ella L. Kelley       |

|           |                           |
|-----------|---------------------------|
| Cobalt    | Sister Jean Gabriel Jones |
| Curium    | T. Sarada                 |
| Fluorine  | Marilyn D. Lucas          |
| Mercury   | Florence K. Gleason       |
| Neptunium | Ann Claire Cotham         |
| Niobium   | Mary Andrieu Ryan         |
| Oxygen    | Kathryn A. Dugaw          |
| Radium    | Linda S. Fowler           |
| Samarium  | Margaret A. Cavanaugh     |
| Uranium   | Kathy Jean Erwin          |
| Vanadium  | Celia J. Menendez-Botet   |

#### Members-at-Large

Leona Bayer  
Harriet Henke Ford  
Joan P. Kilbourn  
Miriam Reiner

Other full time registrants were Anna Barruff, Rosalind Klaas, Lillian M. Questiaux, Frances Seabright, Aurum Iodide, Helen Free, Samarium; Alice Dunham, Uranium; Lynda B. M. Ellis, Mercury; and Nyla Sherrie Squýnes, Neptunium. Part-time registrants were: Elaine Anderson, Kathy Baker, Harriet Bible, Bertha Brandt, Grace Burbulys, Wilberta Chinn, Lillian Churchill, Terry Donatello, Marijo Doody, Gladys Eckfeldt, Laura Erick, Hoylande Failey, Marlene Godsel, Lucille Hac, Jeannette Hart, Delores Ivery, Ellen Janka, Marilyn Kathan, Jeannette Kerbaugh, Eunice Kreider, Kathryn McHugh, Ruth Loughhead, Mary Jane Oestmann, Cecilia Paluch, Adele Rozek, Nora Sabelli, Sister Carol Shlemmer, and Elizabeth Soukup, all from Aurum Iodide Chapter. Non-Member guests were Joyce Benjamins, Roy Bible, Alfred Free, Nina Free, Loretta Jones, Marilyn Kramer, Walter Kramer, Elma Lanterman, Ann Paluck, Rose Paluck, Polly Price, William Sherren, and Janet Vernon.

The National Council reports were approved as given. During her report, Beverly Schaad, National Treasurer, announced that a bequest of \$5709.89 was left to Iota Sigma Pi by Anna Louise Hoffman, which was placed in the Award and Scholarship Fund. Past President Joan Lambros announced that, at the pre-convention meeting, National Council approved that the National Honorary Membership Award be given annually instead of triennially as in the past.

Invitations for the 1981 Triennial Iota Sigma Pi National Convention were extended by Fluorine and Sulfur Chapters.

At the Memorial Service held at 7:30 pm Monday evening, June 19, 1978, Anne Sherren recognized the following Iotans whose deaths had been reported during 1975-1978: Elizabeth Tuller, Aurum; Eleanor Fischer, Aurum Iodide; Mary Regan Gallagher, Chlorine; Marian Cleveland Lange, Fluorine;



### Delegates to the Nineteenth Triennial Convention Chicago, Illinois, 1978

Hazel Severy, Hydrogen; Grace Spencer, Iodine, a charter member of Aurum Iodide; Dorothy Sickel Ennis and Agnes Hansen, Mercury; Mary Rose Gram, Nitrogen; Sarah Siegel and Helen Stooddy, Oxygen; and Mary Peterman, Vanadium. Celia Menendez-Botet gave a special tribute to Mary Peterman.

The Agnes Fay Morgan Research Award Address: "Molecular Routing: the Problem of Myelin Assembly" was given by Dr. Joyce Benjamins, the eleventh recipient of the award. The 1978 National Honorary Member, Helen Free, (Samarium), gave a slide presentation "Women in Chemistry and Other Parts of the World," at the banquet in the Florentine Room on Wednesday, June 21, 1978, at 7:00 p.m.

The recipients of the Iota Sigma Pi National Undergraduate Award for Excellence in Chemistry for the triennium 1975-1978 were Janet A. Lindsey, Houston Baptist University, 1976; Michelle Moisio Thomas, Kenyon College, 1977; and Deborah Louise Plick, Douglas College, Rutgers University, 1978.

The Chapter delegates presented their chapter reports and papers on "How Can Chapters and Members-At-Large Implement the Purposes of Iota Sigma Pi as Stated in the Constitution?"

During 1976, twelve students and one professional woman became members of Iota Sigma Pi under the direct membership program. During 1977, there were twenty-two students and eleven professional women, and during 1978, there were twenty-three students and one professional woman.

Samarium Chapter, St. Joseph Valley, Indiana and Michigan, was installed as a Metropolitan Chapter by the National President, Violet Diller, on May 2, 1978, in time to send a delegate, Margaret



*The end of our foundation is the knowledge of causes, and secret motions of things; and the enlarging of the bounds effecting of all things possible.*

Francis Bacon 1561-1626

**The Oxford Dictionary of Quotations**, 3rd ed., Oxford University Press (1979)

Cavanaugh, to the convention. Officers elected and/or installed for the 1978-1981 triennium were  
 President: Anne T. Sherren, Aurum Iodide  
 Vice-President: Marilyn Davies Lucas, Fluorine  
 Secretary: Frances K. Seabright, Aurum Iodide  
 Treasurer: Beverly I. Schaad, Oxygen  
 Editor: Doris C. Warren, Neptunium  
 Historian: Sister Mary Rose Stockton, Cobalt  
 Coordinator of Members-at-Large: Susan G. Kelly, MAL  
 Membership Chairman: Sister Antonius Kennelly, Mercury  
 Director: Margaret Ellis, Oxygen  
 Director: Celia J. Menendez-Botet, Vanadium  
 Past President: Violet M. Diller, Radium

### **The Triennium 1978-1981**



**DR. ANNE SHERREN**  
**National President**  
**1978-1981**

Two interim meetings of the National Council were held during the triennium 1978-1981. The first was held June 23-24, 1979, in the Heritage Room of the Holiday Inn at Elk Grove, Illinois. The second meeting was held June 21, 1980, at the home of Frances Seabright, 247 Berkeley, Elmhurst, Illinois, and continued on June 22, 1980, in Room 112 of the Elk Grove Village Holiday Inn.

Membership in the Federation of Organizations for Professional Women was renewed for the years of this triennium.

On October 13, 1979, a regional meeting was held at St. Mary's College with members from Aurum Iodide, Cobalt, Plutonium and Samarium Chapters

participating. In 1980 and 1981, the regional meeting between Samarium and Aurum Iodide chapters were continued.

Sulfur Chapter was reactivated as a Metropolitan Chapter on December 12, 1978. Marilyn Lucas, National Vice President and Nina Roscher, former National Vice President installed Argentum Chapter as a Metropolitan Chapter in the Shenandoah Valley of Virginia on April 7, 1979, at Mary Baldwin College. National Director, Margaret Ellis, installed Promethium Chapter, located in Portland, Oregon, as a Metropolitan Chapter on October 20, 1979 at the Mallory Motor Hotel. Iodine Chapter was reactivated as a Metropolitan Chapter on February 21, 1981. Marilyn Lucas, National Vice-President, installed Molybdenum Chapter (the 39th) as an Academic Chapter on May 16, 1981 at Northeastern University in Boston Massachusetts. The following chapters voted to change from academic to metropolitan status: Chlorine, Neptunium, and Tellurium.

National Council approved seven schools not accredited by the American Chemical Society for submitting Iota Sigma Pi members. They were Lake Erie College, Notre Dame College and Ursuline College in Ohio, Eastern Mennonite College and Bridgewater College in Virginia, North Central College and Saint Xavier College in Illinois.

The 1979, 1980 and 1981 recipients of the Anna Louise Hoffman Award for Outstanding Achievement in Graduate Research were Irene Gennick of the University of Minnesota, Ann E. Orel of the University of California, Berkeley, and Karin Scalon of University of Minnesota. The 1979, 1980, and 1981 recipients of The National Undergraduate Award for Excellence in Chemistry were Anne Marie Learnard of Illinois State University, Bloomington, Anne Booth Woods of the University of Tennessee, Knoxville, and Martha Reynolds of the University of Cincinnati. Ines Mandl, New York, received the National Honorary Member Award for 1979. There was no award given in 1980. Elizabeth Weisburger of National Institutes of Health received the National Honorary Member Award for 1981. The Agnes Fay Morgan Research Award was awarded to Marcetta York Darensburg of Tulane University in 1981.

The name of the Iota Sigma Pi Award for Professional Excellence in Chemistry was changed to the Iota Sigma Pi Award for Professional Excellence.

The Credential Registry Committee was formed for the purpose of gathering in a central place dossiers of members of Iota Sigma Pi so that members may be nominated for Iota Sigma Pi and non-Iota Sigma Pi awards. During this triennium, Iota Sigma Pi sponsored

several events in connection with American Chemical Society national meetings. These included dinner meetings sponsored by Curium Chapter at Washington, D. C. in September 1979, and a dinner in March 1980 sponsored by Neptunium Chapter in Houston. National Council sponsored a social hour at the August 1980, meeting in Las Vegas. National Council sponsored a luncheon meeting in Atlanta, GA in April 1981. National Council voted that all Iota Sigma Pi functions held in connection with American Chemical Society Meetings should be scheduled through the ACS Office.

In an effort to strengthen chapter-national council interaction the president visited the following chapters during this triennium: Argentum, Aurum, Aurum Iodide, Chlorine, Cobalt, Curium, Fluorine, Iodine, Mercury, Plutonium, Radium, Samarium, Tellurium, Uranium, and Vanadium. Thirteen issues of the President's *Operation Guide to Chapter Officers* were published this triennium. New editions of the publication "*What Is Iota Sigma Pi*" were prepared in January 1979 and March of 1980. With the changes in the Awards program a new publication *Awards of Iota Sigma Pi* was prepared.

At the end of the triennium the number of life members exceeded 175.

Sybil Woodruff, Kalium, National President 1927-1930, and Virginia Bartow, Iodine, National President 1930-1933, died during the year 1980.

A new edition of *A History of Iota Sigma Pi* was published in the Spring of 1981, as authorized by the 1978 National Convention.

### Twentieth Triennial Convention

This convention was held June 20-24, 1981, at the Country Inn in Mentor, Ohio with Fluorine as the hostess chapter and President Anne Sherren as chair. The Chapter Roll Call was

| Chapter      | Delegate                                                  |
|--------------|-----------------------------------------------------------|
| Argentum     | Elizabeth Hairfield                                       |
| Aurum        | Judy Gibbens                                              |
| Aurum Iodide | Elaine Lovato                                             |
| Chlorine     | June Kimash                                               |
| Cobalt       | Sister Jean Gabriel Jones                                 |
| Curium       | Nina Roscher                                              |
| Fluorine     | Sister Muriel Petrasek,<br>Betty V. Sogor (alternate)     |
| Iodine       | Catherine Travaglini                                      |
| Mercury      | Linda Ellis.<br>Marie Berg (alternate)                    |
| Molybdenum   | Lacy Prior                                                |
| Neptunium    | Mamie Moy                                                 |
| Niobium      | Marta Cecillia Yappert                                    |
| Oxygen       | Artemis Antipas                                           |
| Promethium   | Bernice Gilmore<br>Joan Priscilla Kilbourn<br>(alternate) |
| Radium       | Carol Mattes                                              |



**Chapter Delegates to Twentieth Triennial  
Convention  
Mentor, Ohio 1981**

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Samarium             | Margaret A. Cavanaugh<br>Rosanne Savol (alternate)                                |
| Sulfur               | Franci Bolen                                                                      |
| Tellurium            | Diana Daniels                                                                     |
| Uranium              | Janice Barton                                                                     |
| Vanadium             | Antionette J. Hockman                                                             |
| Members-at-<br>Large | Harriet Henke Ford<br>Jane Fraenkel-Conrat<br>Kristina S. Knutson<br>Rebecca Wong |

Another full time registrant was Elizabeth Weisburger, Curium. Part-time registrants were Kathy Alpaugh, Neva Cordon, Carol Duane, Lois Fritts, Dorothy Janowski, Joan Lambros, Carol Locke, Nelda Marecki, Ruth Miles, Coletta Sevcik, Mary Szalkowski, Sister Jeanmarie DeChant, all from Fluorine; Marcetta York Daresbourg, Chlorine, Roseann M. Enyedy, Samarium; Diane Schmidt, Radium; Kathy Steffens, non-member. The following Past National Presidents present were recognized: Jane Fraenkel-Conrat, Violet Diller and Joan Lambros.

Chapter Delegates, Members-at-Large, and National Council reports were given orally and also submitted in written form. The panel on Chapter Operation moderated by Margaret Cavanaugh (Sm) presented a number of helpful hints for chapters and also initiated good discussion. A poster presentation and/or a scrap book of each chapter's activities during the 1978-1981 triennium was an innovation at this convention. The Convention members attended a presentation of the Music Man.

The convention committee reports generated the following recommendations, which were all passed.

**Constitution and Bylaws:** That an ad hoc committee prepare a new edition of the Handbook of Operation. This report also included a number of recommendations for the ad hoc committee to consider.

**Awards Committee:** That all award certificates be

*Science is organized knowledge.*

Herbert Spencer 1820-1903

**The Oxford Dictionary of Quotations**, 3rd ed.,  
Oxford  
University Press (1979)

standardized. That the honoraria for The Undergraduate Award for Excellence in Chemistry be changed from \$100 to \$200; that the Anna Louise Hoffman Award for Graduate Research be changed from \$200 to \$300. That a complete description of the Award for Professional Excellence be included in the *Awards of Iota Sigma Pi* pamphlet and all award information be updated to reflect the actions of this convention.

**Finance Committee:** That the current dues structure be changed. The four member dues categories are student, regular, life and emeritus. Both the student and regular dues are split between the National Portion, Chapter Portion and Convention fund. This committee recommended that the initiation fee be raised for both student and regular members from \$6 to \$10 and that the convention fund contribution be raised from \$2 to \$4 for students and for professional members from \$3 to \$8. This changes the student initial fee (initiation fee plus the annual dues for the year following initiation) from \$15 to \$21 and the regular member fees from \$21 to \$30. The annual dues will change from \$9 to \$11 for student members and from \$14 to \$19 for regular members. The Life member formula is  $912-14A$ , where A is the member's age in years. Emeritus membership fee will be \$30 at the time of application.

**Chapter-Council Interaction Committee:** The current operation guides were commended, but additional progress is needed. Possible methods mentioned were establishing a National Speakers Bureau; encouraging regional chapter meetings; sharing of program sources between chapters; establishing chapter officers that correspond to the National Officers; establishing the office of Supplies Coordinator for National Council who will distribute all supplies to the chapters; having chapters receive updated membership lists from National Council two times per year.

**Expansion, Extension, and Status of Chapters:** Both National Council and local chapters should look for potential sites for future or reactivated chapters. National Council should provide reactivation or new chapter packets to assist in the formation and reactivation of chapters. Encourage local chapters to increase their membership. Encourage chapters to locate fund raising activities and support from industry, foundations, and professional organizations. The ritual should be reviewed to be sure that it is timely, reflects our past and stresses that Iota Sigma Pi is an Honor Society.

**Future Convention Ideas:** Let each person purchase their own airline ticket and have National Council pay for ground transportation. Start on Saturday, continue the written distribution of the convention reports, keep the informal activities, but keep meals, meetings and rooms in the same place. Invitations for the 1984 convention were extended by Mercury, Promethium and Iodine Chapters.

**Memorial Service:** At the Memorial Service at 7:30 PM on, June 22, 1981, Margaret Ellis

recognized the following Iotans whose deaths had been reported during 1978-1981: Aurum: Bernadine Brimhall, Helen Temple Colleins, Laura Flynn, Carrie Eleanor Lake, Harriet Sedwick Sands; Aurum Iodide: Chi Cho Wang; Chlorine: Ruth Wells Gandour; Columbium: Florence Mindell; Fluorine: Helen Hunscher Wilkinson; Iodine: Virginia Bartow, Doris E. Brockius; Kalium: Sybil Woodruff; Mercury: Lois E. Hallanger, Wylle B. McNeal, Jeannet Piccard, Charlotte Marie Young; Oxygen: Marjorie Gunn Semon; Neptunium: Sella Hicks Harton; Platinum: Dorothy G. Engle; Radium: Clara Deasy, Emma Doeurr Luhn; Samarium: Jane Austin Akai; Tellurium: Hilda Rosene; Vanadium: Ellen Frazino; MAL: Jean Hawks Jewelston, Hazel W. Severy. Special tributes were offered as follows: National President Sybil Woodruff (Kallium) by Sister Jean Gabriel Jones, National President Virginia Bartow (Iodine) by Catherine Travaglini; Jeannette Piccard (Mercury) by Marie Berg.

The Agnes Fay Morgan Research Award Address: "Site Specific Ion-Pair Interactions of Transitional Metal Carbonyl Anions: Relevance to CO Activation" was given by Dr. Marcetta York Darrensborg who was the twelfth recipient of the award. The 1981 National Honorary Member, Dr. Elizabeth Weisburger presented an address entitled "A Chemist in Search of Carcinogens".

The recipients of The National Undergraduate Award for Excellence in Chemistry were Anne Marie Learnard of Illinois State University, Bloomington, 1979, Anne Booth Woods of the University of Tennessee, Knoxville, 1980, and Martha Reynolds of the University of Cincinnati, 1981. The recipients of the Anna Louise Hoffman Award for Outstanding Achievement in Graduate Research were Irene Gennick of the University of Minnesota, 1979, Ann E. Orel of the University of California, Berkeley, 1980, and Karin Scalon of University of Minnesota, 1981. Ines Mandl, New York, received the National Honorary Member Award for 1979. There was no award given in 1980. Elizabeth Weisburger of National Institutes of Health received the National Honorary Member Award for 1981. The Agnes Fay Morgan Research Award was awarded to Marcetta York Darenburg of Tulane University in 1981.

Officers elected and/or installed for the 1981-1984 triennium were

President: Doris C. Warren, Neptunium  
Vice President: Susan G. Kelly, Iodine  
Secretary: Margaret Ellis, Oxygen  
Treasurer: Sister Jean G. Jones, Cobalt  
Editor: Margaret Cavanaugh, Samarium  
Historian: Sister Mary Rose Stockton, Cobalt  
Coordinator of Members-at-Large: Joan Kilbourn, Promethium  
Membership Chairman: Linda Ellis, Mercury  
Director: Celia J. Menendez-Botet, Vanadium  
Director: Antoinette J. Hockman, Vanadium