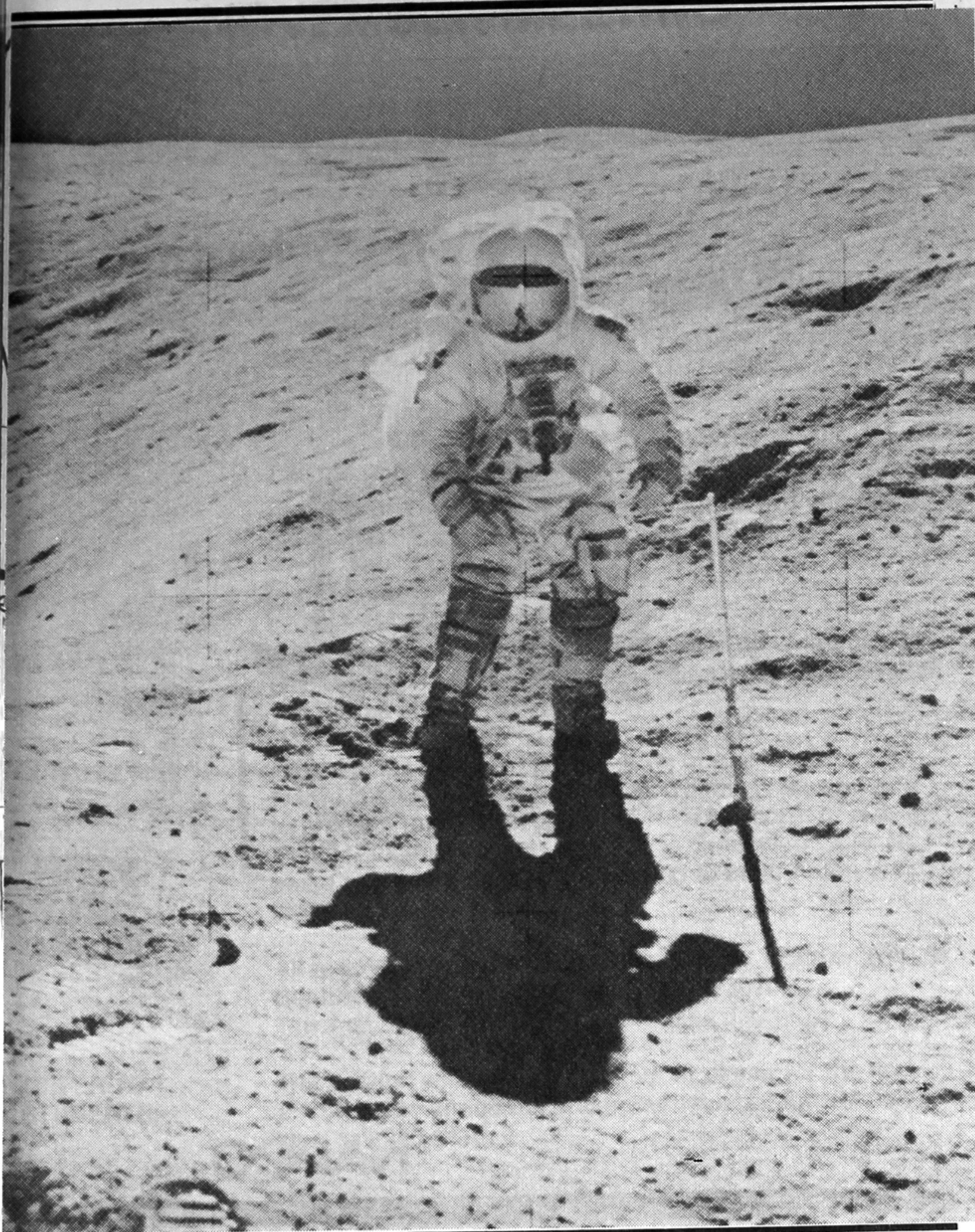


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PUGET SOUND CHEMIST


BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

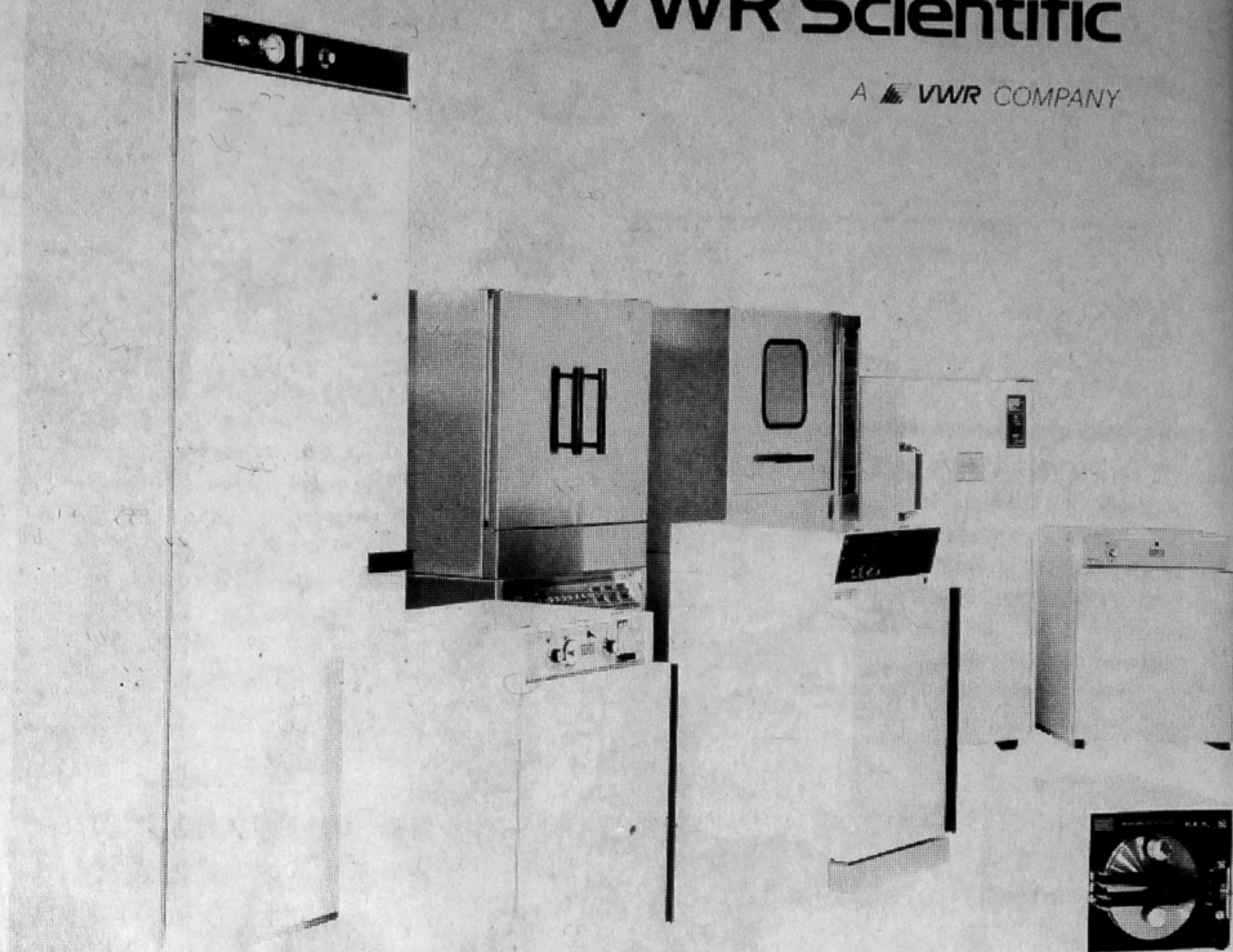
Volume 53, Number 7



November 1992

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On the cover: Astronaut Charles M. Duke, Jr., Apollo 16, collects lunar samples on the moon's surface, subject of November meeting of the Puget Sound Section of the American Chemical Society (see related articles in this issue).

NOVEMBER MEETING

- DATE:** Monday, November 16, 1992
- SPEAKER:** Dr. Carlton B. Moore
Arizona State University
- PROGRAM:** The Chemistry of the Moon's Surface
- LOCATION:** Shoreline Community College
N. 160th and Greenwood Ave. North
Seattle, WA
- SCHEDULE:** 6:30 pm - Dinner Buffet in Cafeteria
PUB, Room 900
7:30 pm - Speaker and program
Please feel free to join us for the program even if you don't attend dinner.
- COST:** \$14.00 per person
- NOTE:** When you reserve your dinner, you have an obligation to pay. Once the food is ordered, the section is billed even if you do not show up.
- DIRECTIONS:** From I-5, take exit 175 (from South) or exit 176 (from North). Go west to Aurora Ave. N. (Highway 99) and turn to proceed to N. 160th (south of N. 175th/north of N.E. 145th). Proceed west on N. 160th to Greenwood Ave. N., make angle turn across Greenwood to Innis Arden Way to main gate of college.
- RESERVATIONS:** All reservations must be made by NOON, Monday, Nov. 9.
Seattle: 543-1610 Bellingham: 676-3070
Tacoma: 535-7530
- OFFER TO STUDENTS:** The Section will pay half the cost of dinner for the first ten students (graduate, undergraduate, or high school) who call 543-1610.

FUTURE MEETINGS 1993

- January 27 Social Meeting—honoring 1992 and 1993 50-year members
The Mountain Room at the Rainier Brewery
3100 Airport Way South, Seattle

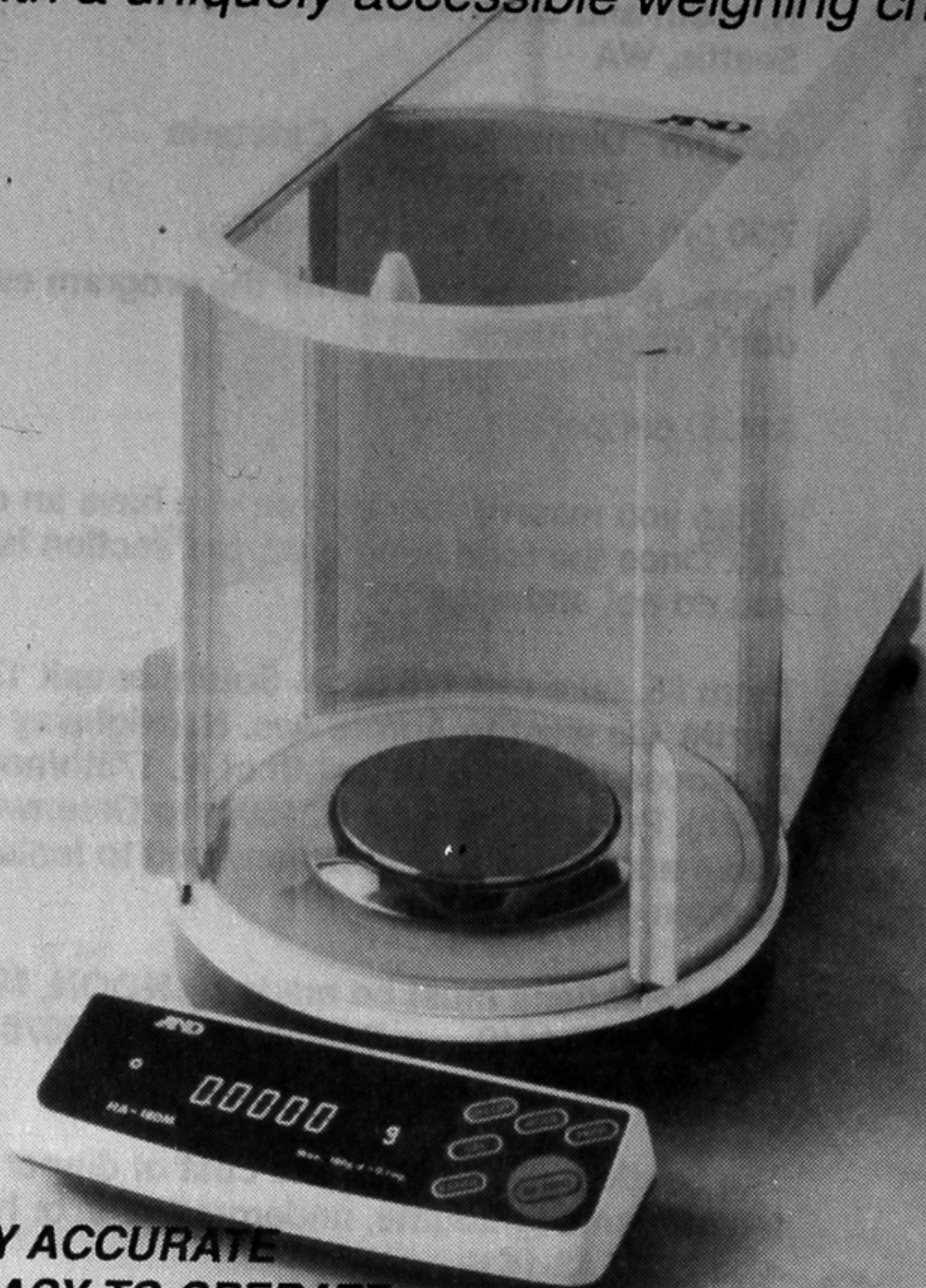
REQUEST FOR BUDGET RECOMMENDATIONS

The 1993 Section Budget will be presented for consideration at the Executive Committee meeting on December 9, 1992. Anyone who wishes to submit recommendations regarding this budget should contact the Treasurer, David Munch, by December 7, 1992.

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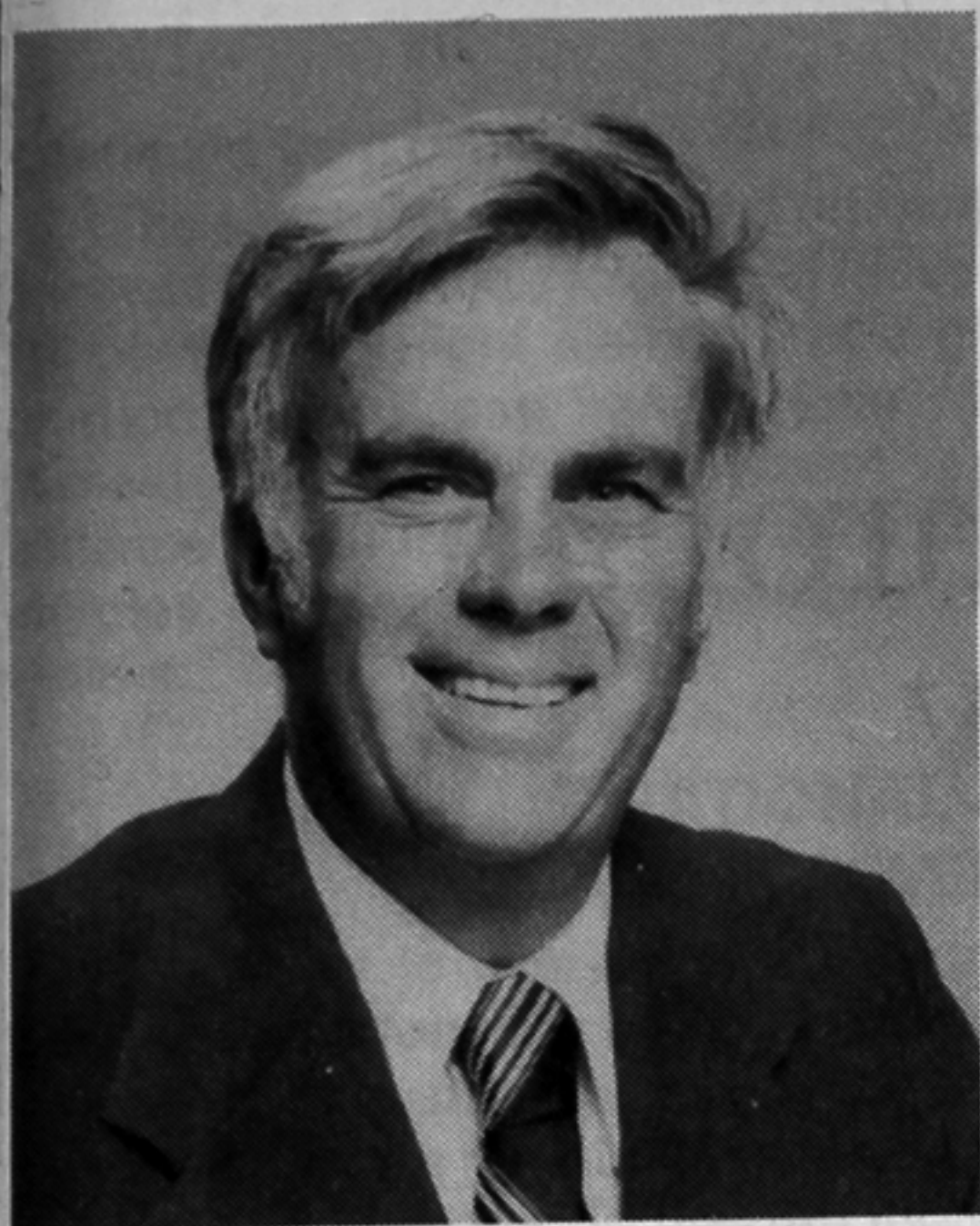


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DR. CARLETON B. MOORE TO ADDRESS THE NOVEMBER MEETING OF THE PUGET SOUND SECTION

Dr. Moore has been the Regent's Professor at Arizona State University since 1981. His area of specialization is Geochemistry. He attended Alfred University where he received his B.S. in 1954, his Ph.D. in 1960 from California Institute of Technology, and his D.Sc. in 1977 from Alfred University. He was Assistant Professor of Geology at Wesleyan University from 1959-1961. He was appointed director of the Center for Meteorite Studies at Arizona State University, 1961 to present; Assistant Professor of Chemistry and Geology, 1961-1966; Associate Professor of Chemistry and Geology, 1966-1970; and became Professor of Chemistry and Geology in 1970. His professional organizations and honor societies include the Geochemical Society, serving on the Educational Committee (1967-1973), the Nominating Committee (1973-1974) and the Publications Committee (1978-1987). He also is a Fellow of the Geological Society of America, the Mineralogical Society of America, the American Association for the Advancement of Science Council (1967-1970), and the Meteoritical Society, serving as President (1966-1968) and Editor (1968-1987). He is a member of Sigma Xi, the Arizona-Nevada Academy of Science (President, 1978-1979), and the American Chemical Society. He was a Lunar Sample Principal Investigator for Apollo 11, 12, 14, 15, 16, 17 (1969-1975); the Preliminary Examination Team, Lunar Receiving Laboratory for Apollo 12, 14, 15, 16, 17 (1969-1973), and on the Lunar Sample Analysis and Planning Team (1977-1982).

ABSTRACT: CHEMISTRY OF THE MOON'S SURFACE

The lunar samples returned by the Apollo missions are in many ways similar to but generally different from terrestrial rocks. The different types of mare and highlands rocks will be reviewed and their chemical characteristics pointed out.

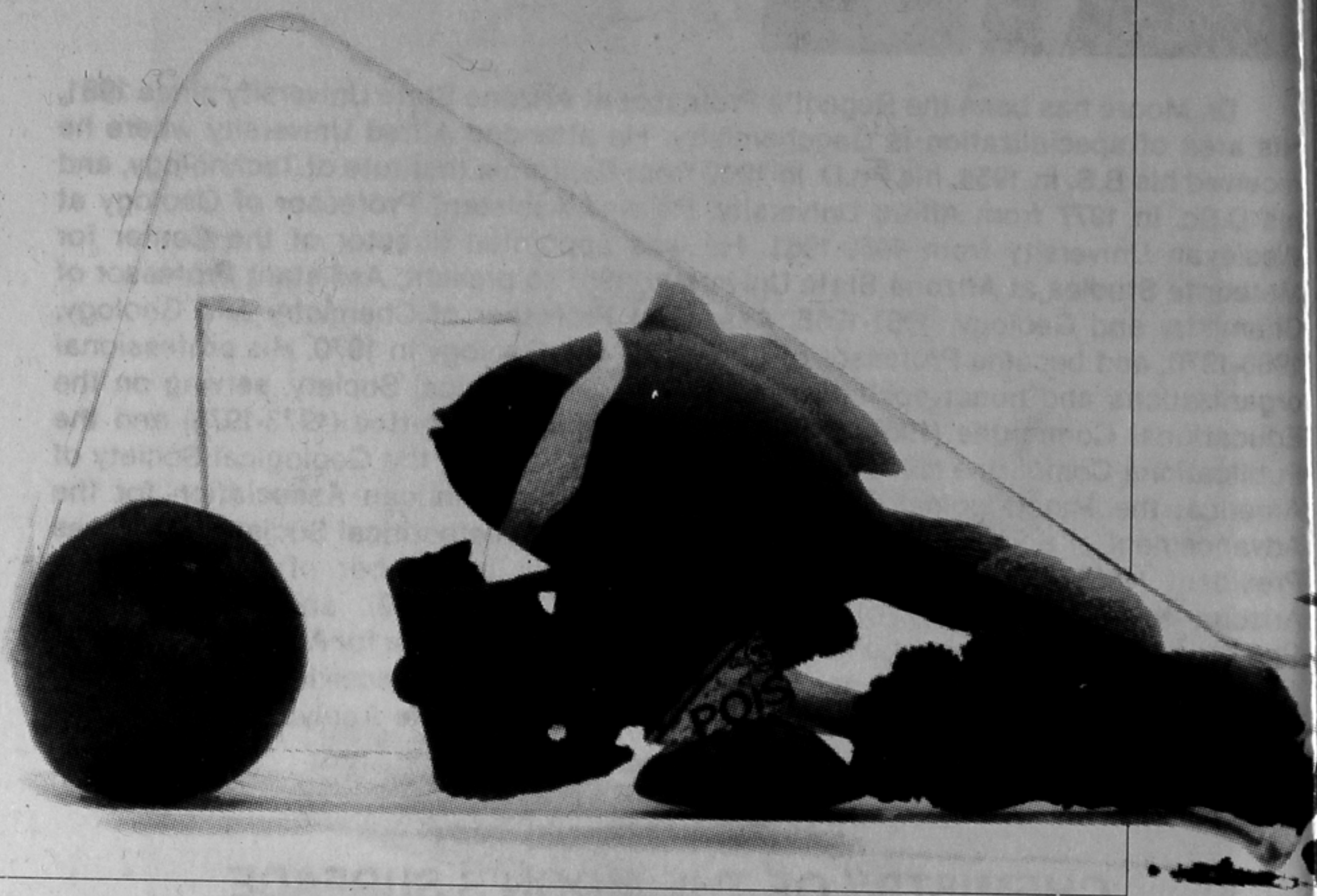
The primitive lunar crust was composed primarily of the silicate mineral anorthite which floated to the surface of a magma ocean. This was contaminated (like a marble-cake) by late planetesimal and meteoroid bombardment. At a time 4×10^9 years ago the moon was subjected to intense bombardment leaving great craters on its surface. The craters were subsequently filled with basaltic lavas to produce the dark mare regions we see today on the side of the moon which faces the Earth.

The youngest large rock returned from the moon was formed 3.2×10^9 years ago. Since then the moon has been a dead planet with only external events changing its chemistry.

The surface of the moon has been bombarded since its origin by high velocity planetesimals, meteoroids and smaller particles including solar wind. Since the moon has been a relatively inactive body geologically speaking, chemical evidence of the nature of such extra lunar materials is retained by the lunar regolith.

(continued on page 7)

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continued from page 5)

The speaker's work related primarily to C, N and S analyses of lunar samples will be reviewed to show the evolution of ideas relating to lunar surface chemistry. The chemical composition for light elements at a given place on the moon's surface is primarily a function of local and nearby lunar rocks and solar wind bombardment. For heavier elements meteoroid bombardment is important. The lunar regolith shows chemical evidence that it is made up of about 2% of carbonaceous chondrite-like material. High energies of impact destroy mineral and molecular species but an elemental imprint remains.

NATIONAL CHEMISTRY WEEK NOVEMBER 1-7, 1992

Chemistry is everywhere! National Chemistry Week has available a beautiful calendar, *Milestones in Chemistry*, produced by ACS and The Beckman Center for the History of Chemistry, and brochures, campaign buttons, balloons, posters, sweatshirts, magazines, and a variety of other NCW material for your communities, schools, and outside organizations. To find out more about National Chemistry Week, contact Doug Mandt, 4525 - 126th Ave. Ct. E., Sumner, WA 98390, 206-863-7441.

NOMINATIONS FOR 1993 SECTION OFFICERS

Nominations for officers for 1993 for the Puget Sound Section of the American Chemical Society will be accepted from the floor at the November 14 meeting of the Section, to be held at Shoreline Community College. Details of the meeting are on page 3 of this issue.

Dr. Clarita Bhat, Chair-Elect, will become Chair for 1993. Dr. Tom Schultz, incumbent Secretary, and Dr. David Munch, incumbent Treasurer, have accepted renomination to these positions.

Dr. Sheri Tonn is Chairperson of the Nominating Committee. Questions regarding the nomination procedure may be directed to her at (206) 535-7552.

CHANGES IN STANDING COMMITTEES OF LOCAL SECTION

Mary O'Brien is the new Chairperson of the Education Committee, upon the resignation of Larry Thomas.

Dirk Verhagen, chair of the Chemical Health & Safety Committee, has resigned. Dirk headed this committee for several years and produced an excellent video, *Chemicals in the Home*, which is available for sale from the local section. For more information, contact Dirk Verhagen at (206) 745-3494.

The Section thanks both Larry and Dirk for jobs well done.

ACS HONORS ITS 1992 50-YEAR MEMBERS

Twelve members of our local section became 50-year members of ACS in 1992, honored by our local section and the national society. Each 50-year member receives a certificate, a special pin, and a permanent badge good for free registration at all national and regional meetings. These members will be honored guests at our section social meeting on January 27, 1993:

B. Eldon Anderson, Olympia, WA
Francis P. Baldwin, Coupeville, WA
L. P. Callahan, Seattle
Burton D. Dietzman (deceased), Seattle
T. Lloyd Fletcher, Seattle
Jack W. Kniffen, Shelton, WA

Dominic Manieri, Anacortes, WA
L. Frank Maranville, Shelton, WA
Frank E. Martinez, Edmonds, WA
Lewis S. Miller, Bellevue, WA
Francis J. Reithel, Nordland, WA
Stanley P. Rowland, Tenino, WA

Biographies of the 50-year members will appear in a later issue of the *Puget Sound Chemist*.

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1992 NOBEL PRIZE IN MEDICINE AWARDED TO E.G. KREBS AND E.H. FISCHER, UNIVERSITY OF WASHINGTON MEDICAL SCHOOL PROFESSORS

Professors Fischer and Krebs of the Department of Biochemistry in the University of Washington School of Medicine, have been working together extensively for over 40 years in the study of the enzyme Phosphorylase, which is responsible for energy transfer in muscle action. This led to their discovery of reversible protein phosphorylation in the early 1950's, which they first reported in 1956. For this discovery, they will share the 1992 Nobel Prize in Medicine. The award was announced on Oct. 12 and extensive accounts were made in local newspapers and television broadcasts on October 13. It is a pleasure to note that both awardees are members of this section.

1991 PAULING MEDALIST, PROFESSOR RUDOLPH MARCUS, RECEIVES 1992 NOBEL PRIZE IN CHEMISTRY

Professor Rudolph Marcus of the California Institute of Technology, Pasadena, has been awarded the 1992 Nobel Prize in Chemistry. Dr. Marcus is a foremost expert in the field of theoretical chemical kinetics. Although he has contributed to many areas, he is best known for his theory of electron transfer reactions in solution ("Marcus Theory") and for his contributions to the theory of unimolecular reactions (RRKM theory). The outstanding aspect of his work is that his theories have not only been a stimulus to other theoreticians, but they have had a profound influence on shaping the direction of experimental research.

Professor Marcus was awarded the 1991 Linus Pauling Medal in May, 1992, in Corvallis, Oregon. The 1991 award event was organized by The American Chemical Society's Oregon Section, one of three northwest ACS sections sponsoring this award.

The Pauling Medal Award, cosponsored by the Oregon, Portland and Puget Sound Sections of the American Chemical Society, annually recognizes outstanding achievement in chemistry and contributions to the field that have merited national and international recognition. The award is named after Dr. Linus Pauling, a native of the Pacific Northwest, because of the inspiration of his example. The 1991 event was hosted by the Oregon Section of the ACS.

PROFESSOR A. DAVID BUCKINGHAM TO GIVE PAUL C. CROSS LECTURE AT UW IN DECEMBER

Professor A. David Buckingham of the University Chemical Laboratory at Cambridge University will visit the University of Washington in December and will present The Paul C. Cross Lecture on December 9 in Room 154 Bagley Hall on the University of Washington campus. His topic will be "The Structure and Properties of Van der Waals Molecules."

Professor Paul C. Cross (1907-1978), a distinguished physical chemist, served as Chairman of the Department of Chemistry, University of Washington, from 1949-1961, and was president of the Mellon Institute, 1961-1972. This lectureship is dedicated to his memory by the family and his many friends and colleagues.

Former presenters of The Paul C. Cross Lectures, 1980-1991, have been: 1980, B. Crawford, Jr., University of Minnesota; 1981, E. B. Wilson, Jr., Harvard University; 1982, A. C. Albrecht, Cornell University; 1984, M. Karplus, Harvard University; 1985, R. O. Watts, Australian National University; 1988, A. Sargeson, Australian National University; 1991, U.P.R. Wild, ETH-Zentrum, Zurich.

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AMERICAN CHEMICAL SOCIETY AWARD NOMINEES SOUGHT

Nominees for the 1993 Patterson-Crane Award are being sought by the Dayton and Columbus, Ohio, Sections of the American Chemical Society. The biennial award, consisting of a \$2000 honorarium and a personalized commendation, is given in honor of Austin M. Patterson and E. J. Crane, previous editors of Chemical Abstracts. An international honor, the Patterson-Crane Award acknowledges contributions to the field of chemical literature, especially chemistry documentation, chemical information storage and retrieval, and implementation and management of chemical information services. Nominations for the award must be in writing and should discuss the nominee's contributions to the field as well as an evaluation of accomplishments. Materials supporting the nomination should include a biography and bibliography of publications and presentations. Seconding letters are required. Send one copy of the nomination materials to The Patterson-Crane Award Committee, Margaret Roach, chairman, Wright State University, Dunbar Library, Dayton, OH 45435, for receipt by *January 31, 1993*. To receive an informative brochure about the award, contact Margaret Roach at (513) 873-3149.

Nominations will be judged by a seven-member selection committee consisting of Dayton and Columbus Section members as well as the Chairman of the American Chemical Society's Division of Chemical Information. The 1993 Patterson-Crane Award will be presented on May 11, 1993, at an awards dinner to be held in Dayton, Ohio.

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□ **Department of Energy seeks firms to clean up Poland's air**—Under the joint U.S.-Polish pollution control initiative begun by President Bush in 1989, the Department of Energy is asking U.S. industries to submit proposals for commercial ventures to help alleviate air pollution in Poland, especially in and around its capital, Krakow. The cleanup targets are low-level emission sources, including about 3000 coal-burning boilers and about 125,000 individual coal-burning home furnaces that now operate virtually free of any emission controls. DOE's solicitation asks U.S. firms to propose business ventures, in some cases jointly with Polish firms, in the following areas: district heating, replacement with natural gas or with electric heating, boiler houses, and home stoves. An advanced U.S.-made pollution control system is already being installed at the Skawina Power Station near Krakow. That installation is part of the pollution control initiative, but was carried out under an earlier agreement between DOE and the Polish Ministry of Environmental Protection, Natural Resources & Forestry. Copies of this recent solicitation may be obtained from DOE, Pittsburgh Energy Technology Center, Attn: William R. Mundorf, P.O. Box 10940, MS921-118, Pittsburgh, PA 15236. (OCTOBER 5, 1992 C&EN, pg. 49)

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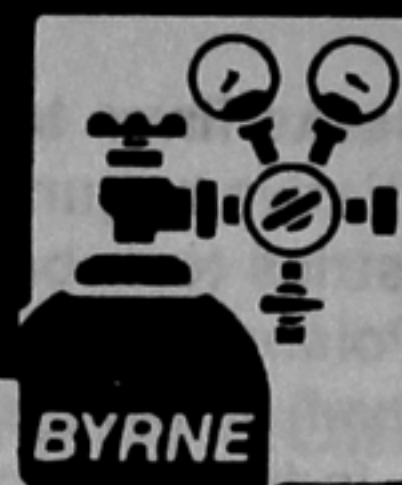
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Our local Section is seeking a Chairperson for the Standing Committee on Employment. If you are interested in serving on this Committee, contact Despina Strong, Section Chairperson, 895-4737 (ofc), 364-9783 (hm).

☐ **CIRES 1993-94—University of Colorado at Boulder Fellowships in Environmental Sciences**—The Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado offers five one-year Visiting Fellowships to scientists with research interests in the areas of Atmospheric Chemistry, Atmospheric and Climate Dynamics, Cryospheric and Polar Processes, Environmental Chemistry and Biology, Environmental Measurements and Instrumentation, Global Change, and Remote Sensing. Awards may be made to senior scientists, including faculty on sabbatical leave, or to recent Ph.D. recipients. Stipends average \$27,000 for twelve months. Sponsored jointly by the University of Colorado and the National Oceanic and Atmospheric Administration with support from other public and private sources, CIRES consists of 400 staff, students, and faculty from several scientific disciplines. The scientists at CIRES conduct multi-disciplinary studies of atmospheric chemistry, physics, and dynamics; global and regional climate change; environmental chemistry; geochemistry; biology; and related subjects. The program is open to scientists of all countries. Appointments can begin at any time during the year and are potentially renewable for a second year. For more information regarding applications for the 1993-94 academic year awards, contact Prof. Robert Sievers, Director, CIRES, Visiting Fellows Program, Campus Box 216, University of Colorado, Boulder, CO 80309-0216 USA. First consideration will be given to applications received by **December 1, 1992**. The final application deadline is **February 15, 1993**.

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For more information on the above services, call 1-800-227-5558, and press 4.

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MILESTONES IN CHEMISTRY

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(From the Milestones in Chemistry calendar produced for National Chemistry Week 1992 by the American Chemical Society and the Beckman Center for the History of Chemistry. For more information, contact ACS, 1155 Sixteenth Street N.W., Washington, DC 20036.)

PUGET SOUND CHEMIST



BULLETIN OF THE
PUGET SOUND SECTION
AMERICAN CHEMICAL SOCIETY

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Puget Sound Section, ACS Executive Committee Future Meetings in 1992

Meetings are open to all members and are held
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- CHNOS GC/MS
- Instron, ASTM-TAPPI Instrumentation
- Environmental Instrumentation

American Chemical Society
Puget Sound Chemist
P.O. Box 24032
Seattle, WA 98124-0032

Dated Meeting Notice

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