Dr. Julian Tyson, presently Senior Lecturer in Analytical Chemistry at the University of Loughborough in the United Kingdom will join the UMass Chemistry faculty as Professor of Analytical Chemistry in September 1989.

Dr. Tyson brings active new research and teaching interests to the Department, particularly in the areas of Flow Injection Analysis (FIA), a field of much current interest, and trace analytical methods.

Beatrice Botch (Ph.D. Michigan State University, 1981) joined the Department as Director of the Resource Center. She is also teaching in the Freshman Program. Her background includes a Post-doctoral Fellowship at the California Institute of Technology, Assistant Professorships at Southwest State University, Marshall, Minnesota and at Wittenberg University, Springfield, Ohio. She brings a rich background of experience to contribute to our program including teaching general chemistry, physical chemistry, nursing chemistry, consumer chemistry, and experience with both main frame and microcomputers. The Center is currently prospering under her leadership.

See page 3 for more about the Chemistry Resource Center.
**Department Notes**

**A Graduate Curriculum in Biological Chemistry is Created**

The Department of Chemistry decided in October 1986 to undertake a serious effort to strengthen research and teaching in biological chemistry ("Future of Chemistry Conference," Spring '87 *Goessmann Gazette*). With the addition of two new faculty members in biological chemistry, and with the creation of a graduate curriculum in biological chemistry, this new venture is now well on its way. The new curriculum will emphasize the chemistry of biological molecules and processes, and will help bridge a growing gap between traditional chemical and biological science programs. Questions raised in the biological sciences now often require a detailed understanding of the molecular basis of the observations. Since biology abounds in complex molecules and chemical reactions and processes, it is essential to have training based strongly in chemistry to be able to use the necessary research tools to tackle these complex problems.

The most recent member of the Department in the biological area is **Dr. Craig Martin** (see New Faculty). Dr. Martin has filled the second of three new positions slated since the inception of the program in 1986. Biological chemistry is however not new to the UM Chemistry Department. Dr. Martin joins a growing group of faculty whose research interests blend biological chemistry with other areas of chemistry including **Drs. John Brandts, Louis Carpino, David Curran, Stephen Hixson, Michael Maroney and Robert Weis**.

The Department **seminar schedule this spring** includes two Nobel Laureates: Professor Roald Hoffmann of Cornell University and Professor Herbert Brown of Purdue University.

The Department **NR-80 FT-NMR Facility** opened for general use in September 1988. The two-instrument facility has been functioning well under the coordinator, Professor Paul Lahti, with the able assistance of graduate students Charles Smith and David Modarelli.

**Room 202** in the Lederle Graduate Research Tower A has been extensively renovated and is now a very nicely appointed conference room for the Department.

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**Staff Notes**

**Ms. Ann Marie Sidur** was hired on March 5, 1989 as the new Office Manager to oversee the Main Chemistry Office and the secretarial staff.

**Asaph Murfin** joined Dan Keedy and Mike Conboy in the Electronics Shop in October, 1988.

**Ms. Mathilda Boulanger** retired in November 1988. She was a senior Staff Technician for many years, associated with the Freshman Chemistry Program, and the chemistry majors program in particular.
Professor David Curran has become the Chair of the Professional Relations Committee of the Division of Analytical Chemistry, ACS. This committee is responsible for the Summer Internship program, which has run for many years. If your organization has an interest in summer employment for high quality students at the undergraduate or first year graduate level in analytical chemistry, please contact Professor Curran at 413-545-2585.

A New Analytical Instrument

In January, 1989, the Hewlett Packard Company announced the introduction of a new Analytical Instrumental System, combining a Gas Chromatograph and an Atomic Plasma Spectroscopic Detector to accomplish element specific GC determinations. Dr. Bruce Quimby, (Ph.D., Analytical Chemistry, 1979 with Professor Uden) has been the group leader at Hewlett Packard for development of this instrument, following up on studies that he began at UMass during his dissertation research.

Professor Marvin Rausch was elected Permanent Secretary at the XIII International Conference on Organometallic Chemistry (Torino, Italy, September 1988). The ICOMC series is the most important and prestigious international meeting in organometallic chemistry. He was also Chairman of the VIIth ICOMC, which was held at the University in 1973.

Professor Ramon M. Barnes is the Conference Chairman of the 1990 Winter Conference on Plasma Spectroscopy to be held in St. Petersburg, Florida 8-13 January, 1990. He may be contacted at the department regarding papers and registration.

Professors Curran, Voigtman and Barnes offered a short course in August of 1988 on Electronics Instrumentation which was well received by industrial participants. They will repeat the offering in June of this year.

Professor Peter Lilly attended the 60th Birthday Symposium for E.J. Corey at Harvard last November and gave a talk after dinner on the 1960-64 era in the Corey group. Corey, in his talk to the Symposium, presented some of the Ph.D. research of Philip Carpino, son of Professor Louis Carpino of our faculty.

Professor William McEwen has been invited to be the editor of a new journal, Heteroatom Chemistry, the first issue of which will be published in the fall of 1989. Published by VCH Publishers, this journal was created to recognize the greatly increased activity in the chemistry of compounds containing main group elements in addition to the familiar carbon, nitrogen, oxygen and silicon. Professor McEwen's many years of research in the area of heteroatom chemistry eminently suit him for this editorship. Professor Louis D. Quin will serve on the editorial board.

With Professor Robert R. Holmes as editor of the journal Phosphorus, Sulfur, and Silicon, and Professor William McEwen as editor of Heteroatom Chemistry, along with Professor Robert L. Rowell as Associate editor of Langmuir this brings to three the number of faculty members who are editing international journals.

A process devised by Professor Louis Carpino has been accepted for patenting. This is a new technology for doing rapid, automated peptide synthesis.


**Department Notes**  
continued from page 3

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Faculty Awards

Professor Louis D. Quin and Professor Robert L. Rowell have been elected Fellows of the AAAS. Fellows are “Members whose efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished.”

University of Massachusetts President David C. Knapp announced the sixty Joseph P. Healey and Public Service Awards to faculty at the three campuses. This is the sixth year of these grants, awarded for a variety of research and public service projects. Professors John L. Ragle and Ramon M. Barnes were among the awardees at the Amherst Campus.

Professors Paul Lahti, Paul Cade, Bret Jackson, John Ragles, and Louis D. Quin received an NSF grant to upgrade the Departmental Celerity C1200 to C1260-0. The new system has 2 to 3 times more throughput and 4 times as much memory storage as the older system. The computer room was also renovated, providing room for future upgrades.

Assistant Professor Michael Maroney is a recent recipient of a Lilly Faculty Teaching Fellowship. Faculty selected as Teaching Fellows receive a course reduction in teaching load for one or both semesters of the academic year. In exchange for the released time, Fellows are expected to develop their teaching skills and knowledge of teaching and to improve some aspect of the undergraduate curriculum.

Faculty News

Professor Louis Carpino has been selected to receive one of the four 1989 Faculty Fellowship Awards. Recipients of these awards receive an honorarium and released time from their classes for a year in order to pursue a research or scholarly activity of their choosing. The awardees will be honored by the Graduate School at its Annual Awards Dinner and will also be recognized by the Provost at the Graduate Commencement Ceremony on Saturday May 27, 1989.

Professor Ronald Archer is one of four to receive an alumni achievement award from the Illinois State University Alumni Association. Archer was graduated from ISU in 1953 and earned his master’s degree there a year later.

Professor Richard Stein received an award for Distinguished Service in the Advancement of Polymer Science by the Society of Polymer Science, Japan, in May 1988. He is the first foreign recipient of this award, given for “contributions to the Physics of the Solid State of Polymers.” The award is designated to recognize significant and enduring contributions to the advancement of the science of polymers.

Professor Robert R. Holmes returned from the University of California at San Diego where he used his UMass Faculty Fellowship Award to become acquainted with theoretical methods that he is applying to comparative studies of phosphorus and silicon reactions. Proposals also written during this period resulted in two major grants, one from the National Science Foundation and the other from the Army Research Office. His research is expanding into a new area of organotin cluster chemistry. He and his wife, Joan, hosted the Fifth International Symposium on Inorganic Ring Systems (IRIS-V), held in Amherst in August. It was well attended, having participants from over twenty countries including eastern block representation. The proceedings will be published in the January-February issues of Phosphorus, Sulfur, and Silicon and the Related Elements, a journal edited by Dr. Holmes. As of January 1, 1989, he changed the focus and name of the journal from Phosphorus and Sulfur and the Related Elements to include the silicon family. This spring his younger daughter, Kathryn, will be married in San Diego where his eldest, Mary Anne, already has a growing family.

Faculty News continued on page 6
Faculty News

He has been invited to be a guest of the Institute of Chemical Physics and Biophysics of the Estonian Academy of Sciences in Tallinn (USSR) while attending the 11th International Conference on Phosphorus Chemistry, July 3-7, 1989.

Professor Richard S. Stein spent the month of January, 1989 as a Visiting Professor at Universitat Ulm, Germany. During the month, visits were also made to universities at Mainz, Marburg, and Freiburg in Germany, Zurich and Lausanne in Switzerland and the German nuclear center at Julich.

The second videocourse on "Scattering Methods in Polymer Science and Physical Chemistry" was completed during the Fall semester following the previous videocourse on "Electro-Optical Properties of Polymers." These courses, produced by the Video Instruction Program of the College of Engineering, are presented "live" to students and are videotaped and also sent out by satellite to subscribers in industry and other institutions.

His research group presented nine papers at the meeting of the American Physical Society in St. Louis, MO in March, 1989.

Visiting Faculty

Professor Peter C. Uden spent three weeks during June 1988 at Baoding University, Hebei Province in the People's Republic of China, acting as a World Bank Consultant in Graduate Program development in Analytical Chemistry, for the Chinese Provincial Universities Development Program. The experience of being quite remote from the usual academic and tourist locations in China proved to be a very 'educational' one for all concerned! A few days spent in Shanghai at the end of this visit represented very much a return to 'civilization.'

Another enlightening visit in 1988 was to Freiberg in the German Democratic Republic, for a meeting of the Commission on Analytical Reactions, Reagents and Separations of the International Union of Pure and Applied Chemistry.

Visiting Faculty

Dr. Libardo Torres (Visiting Associate Professor) is on leave from the National University of Colombia, Bogota, for the academic year (1988-89) and is teaching an advanced Organic Chemistry course during the Spring 1989 semester. He is also conducting research in Professor Marvin Rausch's laboratory.

New Faculty

Dr. Craig T. Martin joined the Department in September 1988 as Assistant Professor. His interests lie in the Biophysical area. Some recent investigations involve studies of T7 RNA polymerase-promoter interactions with small synthetic promoters and processivity in early stages of DNA transcription by T7 RNA polymerase. Professor Martin received his Ph.D. from the California Institute of Technology in 1984, and from 1984 to 1986 he was a postdoctoral associate, and from 1986 a postdoctoral fellow at Yale University until he joined the Department.

Professor A. William Johnson (Visiting Professor) is on leave from the University of North Dakota for the Spring 1989 semester. Professor Johnson stepped down from the position of Dean of the Graduate School at his University and is teaching a course in Ylide Chemistry in the Chemistry Department. This is an area of long standing interest to him.
Undergraduates

The Hunsberger Award

Mr. Sean Daley is the recipient of the Hunsberger Award of $1,000 which is given in recognition of the outstanding graduating chemistry major in the class of 1989. He has compiled a grade point average through Fall 1988 of 3.84 out of a possible 4.00. He has conducted chemical research under Professor Lillya and Professor Weis. He presented a paper on his work with Prof. Weis at the Tenth Annual CVS/ACS Undergraduate Research Symposium held at Williams College on April 29th. He has also been selected as the recipient of the 1989 CVS/ACS Award. A 1985 graduate of Westfield, Mass. High School, Sean plans graduate study in physical chemistry at the Massachusetts Institute of Technology. As a junior, Sean received an Alumni Scholarship, a high honor. Each year six Alumni Scholars are selected from the entire nine undergraduate departments in the Faculty of Natural Sciences and Mathematics.

The award is supported by gifts made in memory of the late Professor I. Moyer Hunsberger. Professor Hunsberger was the Chemistry Department Head in 1960-61 and, then, the Dean of the College of Arts and Sciences during the explosive growth period of UMass. His tenure as Dean was prior to the division of the College of Arts and Sciences into three Faculties.

The Hunsberger Award will be presented along with the following four traditional chemistry senior awards: the Award of the Connecticut Valley Section of the American Chemical Society, the American Institute of Chemists Award, the Fessenden Award, and the Merck Award. These four awards, along with the Freshman Chemistry Awards, will be presented in the Chemistry Department sometime before Commencement.

In April 1988, undergraduates Ellen R. Goldman and Bruce Lerner presented papers at the Ninth Annual Undergraduate Research Symposium held at the Central Connecticut State University, New Britain, Connecticut.

Graduate Student Notes

Mrs. Elzbieta Bakowska, a graduate student in Analytical Chemistry, is the recipient of a 1989 Student Award from the Society for Applied Spectroscopy. A dinner and award presentation were held in Lexington, MA on March 23, 1989.

News of Alumni

Rossmann Chemistry Alumni Career Forum

The first Rossmann Chemistry Alumni Career Forum, sponsored by the Chemistry Undergraduate Students Association and held on April 20, 1988, was deemed a great success by the undergraduate students who attended. Donald Donovan ’89 was the event chairperson. The Forum, which started at 8:00 PM, had to be terminated by executive decree at 11:00 PM, at which time the panelists and students were still in active discussion.

The panel included UMass graduates Kirk Grim ’75, Product Manager, Bio-Rad Digiblab Division, Cambridge, MA, Eric Gunderson ’86, Research Assistant, Wyeth Ayerst Research, Princeton, NJ, and Dr. Frank Plankey ’71, Chief Engineer for Analytical Instrumentation, Baird Corp., Bedford, MA. Dr. Plankey commented not only on his current activities but also on his earlier experiences as a chemistry professor at the University of Pittsburgh.

Most of the funding required for the Career Forum was provided by the Alumni Association and administered by the University Career Center.

Martin M. Dorio (Ph.D. 1975) joined the FMC Corporation as the Director of Quality and Productivity at their corporate headquarters after eight years with the General Electric Company in Cleveland. FMC is a manufacturer of machinery, chemicals, and defense products. He, his wife Gayle, and sons Paul and Jay have moved to their new home in Highland Park, Illinois. Gayle is also a 1975 graduate of the University and will be continuing her career in Interior Design related fields.

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in the Chicago area. Martin has also been named to serve as an Examiner on the Board of Examiners for the National Quality Award which was announced by the then President Reagan.

Meredith Findlay, Ph.D., 1977, died in an automobile accident on February 3, 1989. She was traveling in the New York City area when a young driver being chased by the police made a U-turn and hit her automobile head-on. Both she and her passenger were killed instantly. Ironically, the other driver and his passenger suffered only broken bones. Her body was cremated and taken by her father back to California, but her ashes will eventually be buried next to her mother in South Dakota later this year.

Her last employment was M & T Chemicals. She had also been with Ciba-Geigy, Union Carbide, Engelhard, and 3M during her career.

The world has lost an idealist. She went into law as a result of efforts to help improve the lives of persons being abused by the system, and continued her attempts to perfect the system throughout her brief career.

Meredith had a great love for opera and her extensive collection of opera librettos is being set up as a library collection at Rutgers University, where she obtained a law degree subsequent to her Ph.D. degree here at UMass.

Dr. Augustine Silveira, Jr. (Ph.D. 1962), Distinguished Teaching Professor and Chairperson of the Department of Chemistry at the State University of New York at Oswego, recently gave a series of invited seminars at Beijing Municipal University in the People’s Republic of China.

During his stay at the university, Dr. Silveira spoke to faculty, students and administrators on a number of topics which included “Trends in Chemical Education in the United States,” “Projects in Organonitrogen Chemistry,” “Projects in Organometallic Chemistry” and “Projects for Problem-Oriented Laboratory Courses.” A number of topics discussed were ongoing research projects presently being investigated by Dr. Silveira’s students.

During his stay in the People’s Republic of China, Dr. Silveira also visited Xian, Guilin, Shanghai and Guangzhou.

Dr. Silveira also recently received the 1988 American Chemical Society (ACS) Syracuse Section Award based on “outstanding contributions to chemistry, research and chemical education.” He is the first State University of New York professor to receive this award.

He gave an award address at the annual ACS Syracuse Section meeting on his philosophy of education and his research. The meeting was attended by former and present students, faculty and industrial chemists throughout New York State.

A recipient of over 35 grants and awards, Dr. Silveira has published his research results extensively in the major chemical journals in addition to giving invited presentations of his work at colleges and universities throughout the world.
News of Alumni

In 1975 he was awarded the honorary Doctor of Science degree by his undergraduate alma mater, Southern Massachusetts University. In 1976 he was appointed to the rank of Distinguished Teaching Professor, a rank above Full Professor and the highest rank in the State University of New York. Dr. Silveira previously served a four-year term as a member of the University of Massachusetts at Amherst's Chemistry Alumni Advisory Council. □

Anastasia Morfesis (Ph.D. 1984) began a new position with the PPG Fiber Glass Research Center last summer as a Senior Research Chemist. Her responsibilities are divided equally between the interfacial research program and a top priority product development project. The interfacial research program involves understanding the surface phenomena that occur between glass and polymer coatings. She organized a successful symposium for the Fall ACS meeting in Los Angeles entitled "Ordered Polymers and Polymer Colloids," which drew scientists from Chemistry, Physics, Polymer Science and Chemical Engineering. Via an ACS-PRF grant, she was able to invite Professor Ise from Kyoto University, Japan, to be the keynote speaker. Beginning in 1990, she will be the Meeting Secretary for the Colloid Division. In 1988 she gave birth to her son Andrew, whom she says, "helps me judge whether my accomplishments are real or imaginary." □

Keith Gourley (M.S. 1982) is a patent attorney with Air Products and Chemicals, Allentown, PA. Keith has bought a house near the old historic district in Bethlehem, PA and is restoring it himself. He visited Amherst with friends this fall (1988). □

With the closing of Dow Chemicals' New England Laboratory in Wayland, MA, Bob Dubois (Ph.D. 1975) and his wife Sue have moved to the Houston area where Bob has joined Dow's Resins Research Laboratory in Freeport, TX. □

Maureen Joseph, Ph.D. Analytical Chemistry with Professor Uden (1988) has joined the Monsanto Company in St. Louis, Missouri. □

L. Dan Hoey, Ph.D. Analytical Chemistry with Professor Uden (1988) is with the Hewlett Packard Company in Andover, Massachusetts. □

Mark Gelbert (Ph.D., Electroanalytical Chemistry, 1985) was one of the chemists featured in a report in the July 15, 1988 issue of Analytical Chemistry. The report described the roles analytical chemists play in industry and the criteria for a successful career. Mark joined Procter & Gamble's Health & Personal Care Product Development Division as an analytical chemist responsible for methods development and was the "chemist liaison" for project teams. He worked with over-the-counter analgesics and gastrointestinal products and managed the liquid chromatography standard methods laboratory for three years. He then became responsible for all regulatory concerns for gastrointestinal products. He has been studying law in the evenings for two years and hopes to combine his expertise in chemistry and law. □

Paul H. Terry (Ph.D., 1960) retired in September 1988 after almost 28 years with the United States Department of Agriculture. He began as a research chemist with the Insect Chemosterilant Laboratory in 1963, carrying out the synthesis of insect chemosterilants and studies of their metabolism in insects. He most recently was a member of the Plant Hormone Laboratory where his studies focused on the isolation and quantitation of plant hormones and their relationship to stress factors such as drought and temperature. He has been active in the Chemical Society of Washington since 1963, serving as its President in 1987, and in the American Chemical Society where he has served as a National Councilor since 1982. He is also active in Toastmasters International, joining in 1973 and rising to become District Governor in 1983-84. He has been on a trip to Europe to visit friends since retiring, and is involved in some new activities since his return. □

A husband and wife alumni 'team' are both Chairpersons of their respective academic departments. Susan K. Henderson, (M.S. Analytical with Professor Curran 1973 and UMass Ph.D. in Food Science) is Chairperson of the Department of Chemistry at Quinnipiac College, Hamden, CT. David E. Henderson, Ph.D. Analytical with Professor Uden (1975) is Chairperson of the Department of Chemistry at Trinity College, Hartford, CT. Both have recently been promoted to the rank of Professor at their respective institutions. □
Professor Takeji Hashimoto, a past Ph.D. recipient who worked with Professor Stein, will be awarded the Chancellor's Medal for "exemplary and extraordinary service to the University of Massachusetts at Amherst" at the Graduate Commencement Ceremony scheduled for Saturday, May 27, 1989 in the Curry Hicks Building. Dr. Hashimoto will present a Joint Chemistry/Polymer Science and Engineering seminar on Friday, May 26. The title of his talk will be "Morphological Studies on Polymer Blends - Dynamics and Self-Organization of Polymer Mixtures at Phase Transitions". Preceding the seminar will be a reception for him.

Michael Delaney, Ph.D. Analytical Chemistry with Professor Uden (1979) is now Director of Chemical Analysis for Cambridge Analytical Associates of Boston, Massachusetts.


Yen-sun Ho, Ph.D. Analytical Chemistry with Professor Uden (1988) is with EHRT, an environmental analytical company in Birmingham, Alabama.

Young Jae Yoo, Ph.D. Analytical Chemistry with Professor Uden (1988) is a Post-Doctoral Research Associate in the Department of Food Science and Nutrition at the University of Massachusetts, Amherst.

Xiaoru Wang, Ph.D. Analytical Chemistry with Professor Ramon Barnes (1988) is now on the faculty of Xiamen University, Xiamen in the People's Republic of China.

Dr. James R. Ford, Ph.D. Physical Chemistry (1984) has recently moved to Montreal where he is self-employed doing software development. His wife Mary Beth (B.S., Bio-Chemistry early 1980's) has a medical degree and is doing a one year fellowship in oculoplastic surgery at Montreal. They plan to move to Bath, Maine in July where Mary Beth will set up practice with an ophthalmologist and Jim will continue his self-employment in the area of software development.

Michael Young, Ph.D. Analytical Chemistry with Professor Uden (1988) is with Cambridge Analytical Associates of Boston, Massachusetts.

Charles (Jerry) Thoman, Ph.D. 1966, has left the Stephen F. Austin University in Nacogdoches, Texas, to join the Philadelphia College of Pharmacy and Science as Chairman of the Department of Chemistry and Biochemistry, effective July 1, 1989.

Walter Gavlick, Ph.D. Analytical Chemistry with Professor Uden (1988) has joined the Searle Research and Development Division of the Monsanto Company in St. Louis, Missouri.
Alumni have helped the Department in many ways over the years, and we are very appreciative of the continuing support they have given us. In 1987, we organized a new way to facilitate their making financial contributions to the Department. The *Chemistry Annual Fund* was created for this purpose, and we now ask our Alumni once again to join with us in further development of the Department. The Annual Fund has been the main source of support for a greatly expanded seminar program that brings in distinguished chemists to interact with our faculty and students. This program will be continued in the coming year, but we now wish to develop another major alumni-supported activity. There is a clear need for an increase in the number of fellowships available to graduate students that provide support during the very valuable summer period of research. We propose creating several *Alumni Summer Fellowships* that would carry a stipend of $2000. Half of the stipend would be derived from alumni contributions; the other half would be matched by the Department using other funds, in respect for the efforts of our alumni. Any single alumni gift as large as $1000 would allow us to name the fellowship after the donor, of course with the donor’s approval.

The Seminar Series and the *Summer Fellowships* are student-centered activities, and are most appropriate for support by former students. Alumni may use the contribution form and envelope provided with this issue of the *Goessmann Gazette*. Contributions can also be made to the University Annual Fund, and will reach us if the Chemistry Department is specified as the recipient of the contribution. Many industrial organizations have very generous matching-gift programs, frequently doubling or even tripling the gift of an alumnus, and we hope that requests for this additional form of support will be made when appropriate.

To all alumni who contributed to our program during 1988, we send our sincere thanks, not only for monetary contributions, but also for the demonstration of loyalty and support for our endeavors. We look forward to your continuing alliance with us during 1989.

Louis D. Quin, Head

The *Chemistry Annual Fund*
University of Massachusetts at Amherst, Department of Chemistry

The Annual Fund is to be used for the support of the Department Seminar Program and for graduate fellowships.

Enclosed is my check for $________ made payable to the University of Massachusetts to be credited to the Department of Chemistry Annual Fund.

or

I wish to pledge $________ to the Chemistry Annual Fund, and will make payments in _______ months or as follows:

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