



THE FILTER PRESS

Newsletter of the Georgia Section of the American Chemical Society

Volume 11, Number 4

April, 2001

Careers in Chemistry

Joseph Leone, Chemo Dynamics

Joseph Stoner, PerkinElmer

Marcus Weck, Ph.D., Georgia Institute of Technology

-The format for this meeting is different from our usual Careers in Chemistry presentation, as we have broken from tradition and included a speaker from academia as well as speakers from industry. This year we are fortunate to have three very diverse speakers who represent three different careers in chemistry. Each of our speakers has used his training in chemistry for very different purposes and each will give a short presentation discussing their career pathways, as well as the different types of chemists in their companies or institutions. And, since our speakers come from different educational backgrounds, they will also discuss the various opportunities available for each of the different types of degrees future chemists can pursue. After their presentations there will be a panel discussion with the three speakers answering questions from the audience. This meeting should be very valuable for anyone thinking of pursuing chemistry as a career or who may be thinking of changing careers within chemistry.

Joseph Leone holds a BS in Biochemistry from Susquehanna University, an MS in Organic Chemistry from the University of South Florida and an MBA from Fordham University. He began his laboratory career in discovery chemistry with Schering Plough Corporation as an Assistant Scientist in CNS chemistry. In addition to traditional organic synthesis, he also gained experience in solid phase chemistry and combinatorial chemistry.

He presently works for the SST-Corporation in a dual capacity. His primary responsibility is as the Marketing Manager for Chemo Dynamics. Chemo Dynamics is jointly owned by SST and Dixie Chemical and provides research and preparative services for pharmaceutical and biotechnology companies. He is responsible for the marketing of the company's services, for bringing in new accounts and for coordinating the sales efforts of SST's other account managers toward discovery research projects. His second role with SST focuses on the sourcing of pharmaceutical intermediates for small to large scale manufacturing of drug substances. Prior to joining SST, he was at J-STAR Research where he was a chemist for two years and then developed the sales and marketing efforts of the company during his third year.

Joseph Stoner is a Senior Sales Specialist for PerkinElmer Instruments in the Atlanta area. He is involved in the sales of the full range of PerkinElmer products, including AA, ICP, FTIR, GC, GC Mass Spec, HPLC, Thermal Analysis, and UV/Vis Spectroscopy. He has worked in sales for several analytical instrument companies, including Shimadzu, Kratos, Spectra-Physics and LDC, most often selling HPLC equipment. He has worked in a number of roles, including sales, sales management, quality assurance, product development, and as an independent rep.

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Tuesday, April 24th, 2001 at Georgia Tech



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Investing in People: Portable Pensions

by Tom Netzel

The American Chemical Society (ACS) — the world's largest scientific society with more than 163,000 members in industry, academia, and government — believes that to maintain America's position as a world leader in science and technology, our nation must invest in people — America needs scientists and engineers.

The \$437 billion chemical industry — the nation's number one net-exporter — generated a trade surplus of over \$8 billion in 1999. This continues a more than 70-year uninterrupted history of trade surpluses. To stay competitive, meet public health and environmental concerns, and develop new markets and products to shape the future, the industry spends some \$26 billion annually on research and development and generates one out of every seven patents. It is one of America's eight most research-intensive sectors.

The chemical industry is our nation's third largest manufacturing sector, representing about 10 percent of all U.S. manufacturing. More than 70,000 different chemicals are registered. More than 9,000 corporations develop, manufacture, and market chemical products and processes. The success of the chemical enterprise is due largely to scientific and technological breakthroughs and advances made in industrial, academic and government laboratories by people, scientists and engineers.

The challenge for policymakers is to ensure that all Americans benefit from job opportunities in rapidly growing science and engineering (S&E) sectors. As technology changes, tax incentives and other means may be used to encourage businesses and their employees to develop new skills through on-site or distance-learning programs. Workers whose livelihoods have been disrupted by corporate restructuring need to be retrained.

Chemical professionals — people with education or experience in chemistry, chemical engineering and related sciences — face additional changes in the workplace. Jobs are being created faster in the chemi-

cal services and pharmaceutical sectors, and in smaller companies. Those with the latest technical skills and familiarity with new and emerging technologies are in greater demand, and people are changing jobs more frequently. To help scientists and engineers succeed, government should **focus on appropriate portability of pension benefits** and support efforts of business and academia to provide continuous training and retraining.

The American Chemical Society is concerned about the lack of adequate retirement security for our nation's scientists and engineers, and in a larger context, for all our nation's workers. ACS has reviewed the subject and recommends that future federal pension legislation include the following provisions.

Vesting Minimum - For single or multiple employer defined benefit plans, ACS recommends that pension benefits be fully vested after three years of employment, or, at a minimum, vested gradually in one to five years to become fully vested after five years. For defined contribution plans, vesting should be immediate upon the start of employer contributions, which should begin no later than one year after beginning employment.

Benefit and Contribution Features - ACS believes that the purpose of retirement benefits plans should be to provide post-retirement income from all sources that would allow retirees to maintain the standard of living enjoyed before retirement. These retirement plans are usually defined benefit or defined contribution plans. The Society recommends that both a defined benefit plan and a defined contribution plan be provided to the employee. The defined benefit plan gives dependability and predictability, and should be provided by an employer-funded plan. Defined contribution plans should offer tax advantages to both employee and employer, and be funded by employee and employer contributions.

Portability - ACS recommends that retirement benefit plans be portable in order to allow an employee to

maintain retirement benefits despite changes in employment. If an employee, upon termination, cannot continue to participate in a retirement benefit plan held by the employer, then the employee should be given the following options:

1. The employee may transfer her/his accrued benefit as a lump sum to an Individual Retirement Account or other pension plans (e.g. annuities, 401K, new employer's plan).
2. The employee may delay her/his retirement benefit payments until retirement age, and the employee's accrued benefit would be increased on an annual basis by prevailing interest rates and life-expectancy assumptions.

Guarantee of Pension Benefits - ACS recommends that all defined benefit pension plans contain a restriction so that, on termination of a plan, the funds in the plan cannot be appropriated by the employer or anyone else (e.g., government, subsequent owner) until the vested interest of all employees has been met.

Begin to Raise the Visibility of this Issue. Lack of adequate retirement security for our nation's scientists and engineers is not a new issue. In spite of its importance to all chemists personally and to the general attractiveness of our profession to today's students, it continues to have low visibility within Congress and even within the ACS itself. We members of the ACS can change this, if we would like to do so. Please send me a brief email, if you are interested in beginning the process of raising the visibility of this issue. Don't help to perpetuate this problem, choose now to become part of its solution. Send your email to tnetzel@gsu.edu.

Advertise employment positions (temporary or permanent), goods, services, etc. in the Filter Press! Prices for advertisements per issue are:

Full Page	7" x 10"	\$200
Half Page	7" x 5"	\$150
Quarter page	3 1/2" x 5"	\$100
Eighth page	3 1/2" x 2 1/2"	\$50

*There is a 10% discount for 4 or more issues.

Send camera-ready copy of the advertisement to the address below or by email to agabrieli@spsu.edu. Indicate the number of months it should run as well as the size.

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Careers in Chemistry
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He is a graduate of Georgia Tech in Chemical Engineering and of the University of Georgia with an MBA. His daughter Lelia graduated from Georgia Tech with a degree in Civil Engineering and his wife Jane is employed with the Georgia Tech Alumni Association. He was awarded the Ramblin' Wreck Award by the Alumni Association for his alumni activities. He has been active in the North Jersey Section of the American Chemical Society, serving as Chair and Councilor. He also served as chair of the North Jersey Chromatography Topical Group. He was awarded the 1998 Director's Award for Advancing ACS Public Policy in R&D Funding by the ACS Office of Legislative and Government Affairs.

Professor Marcus Weck did his undergraduate studies at the Johannes Gutenberg University in Mainz, Germany and at the University of California, Irvine. In 1994, he received his M.S. degree from the University of Mainz, working with Professor Helmut Ringsdorf on molecular recognition at the air/water interface and on solid support. He obtained his Ph.D. degree in organic and polymer chemistry from the California Institute of Technology in 1998, where he had worked, under the direction of Professor Robert H. Grubbs, on olefin metathesis for the synthesis of supramolecular structures. The same year, he joined the group of Professor George M. Whitesides at Harvard University as a German Academic Exchange Service Postdoctoral Fellow working on surface chemistry, two-dimensional polymers, and meso-scale self-assembly. He joined the faculty at the Georgia Institute of Technology in July 2000 as an Assistant Professor in the School of Chemistry and Biochemistry.

Professor Weck's research interests are in the areas of organic and polymer chemistry as well as materials science. The main focus is on the use of multi-step self-assembly to design and synthesize polymers, organized assemblies, and nanostructures. Emphases include: 1) the synthesis of functionalized copolymers using self-assembly, 2) the design and synthesis of membranes and organized assemblies based on well-defined nanoparticles, 3) the design and synthesis of biological membranes, and 4) the use of nanoparticles as solution phase support in organic synthesis. He uses organic and metal-coordination chemistry to provide the materials and a variety of analytical tools to characterize the polymers and assemblies.

Tuesday, April 24th, at Georgia Tech

Careers in Chemistry

Joseph Leone, Chemo Dynamics

Joseph Stoner, PerkinElmer

Marcus Weck, Ph.D., Georgia Institute of Technology

Date: Tuesday, April 24, 2001

Time: 6:30 - 7:00 p.m. arrive & social
7:00 - 8:00 p.m. dinner
8:00 - 9:00 p.m. Speakers

Dinner: "South of the Border"
Tortilla Chips with Black Bean Jicama Salad, Roasted Pepper Salad Topped with Pine Nuts, Prepared Beef or Chicken Frajitas, Sautéed Onion and Mixed Peppers, Diced Tomatoes, Sour Cream and Green Onion Toppings, Tortillas, Cilantro Fried Rice, Mexican Corn, Cinnamon Tortilla Chips, Iced Tea

The meal will be served buffet-style in the atrium of the IBB building, and the meeting will be held in the conference room adjacent to the atrium.

Location: Georgia Tech
Petite Institute for Bioengineering and Biosciences (IBB)
315 Ferst Drive
Atlanta, GA

Directions: Exit at the Techwood/10th/14th exit, go west on 10th street to State Street, turn L onto State, go to the stop sign, turn L onto Ferst. The Bioscience building is one block east on the corner of Ferst and Atlantic. Parking is free and available anywhere around the building or nearby parking lots.

Cost: \$15 per person, full-time students with ID and high school teachers, \$8. Payment should be made to the **ACS Georgia Section** and will be collected at the door. **Students graduating with a Bachelors Degree in Chemistry this spring will be honored and provided with their dinner at no charge.**

PerkinElmer generously sponsored this meeting, and we greatly appreciate this.

RSVP: Katherine Seley, 404-894-4013, <katherine.seley@chemistry.gatech.edu>
When making reservations, please state your name and telephone number. Reservation deadline is 5:00 PM Wednesday, April 18. **No exceptions!** Due to the limited space available, it is highly recommended that you make your reservations early. If you make a dinner reservation but fail to attend, you must still make payment for your meal to treasurer Angus Wilkinson, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, Georgia 30332-0400, 404-894-4036



2000-01 Georgia Section Meetings:

May, 2001

Herty Award dinner

September 12, 2001

The Chemistry of Wine
Ernie Simpson

November 14, 2001

Chemistry in the Sherlock
Holmes Stories
James O'Brien



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