Monthly Meeting
MCG Symposium in Brookline: Kinase Targets

Warren Phillips
Disney Outstanding Teacher

UMass Lowell Goes Green
Green Chemistry Program at UMass Lowell

Speaker’s Bureau
Call for Speakers!
UMass Lowell’s TURI Aids Eco-Label First

The Toxics Use Reduction Institute (TURI) at the University of Massachusetts Lowell has helped a cleaning supply company be awarded the first European Union Eco-label in North America.

TURI’s Surface Solutions Laboratory, under the direction of Carole LeBlanc, provided the technical assessment necessary for Cogent Environmental Solutions of Caledon, Ontario, Canada, to receive the European Eco-label for an all-purpose cleaner. The voluntary label is designed to encourage businesses to market products and services that are kinder to the environment and help European consumers – both public and private purchasers – to easily identify them.

The Eco-label license allows Cogent to use the official Flower logo on its Ecogent General Purpose Cleaner (exclusively manufactured by Chemspec of Baltimore, Maryland, USA) to promote the product to more than 375 million consumers in the European Union.

“The Eco-label provides companies an easy way for their products to be identified as environmentally friendly by consumers, which gives them a unique advantage over other products,” said LeBlanc, TURI’s laboratory director.

In applying for the license, Cogent sought the expertise of LeBlanc, based on previous work performed for the firm.

“Since Dr. LeBlanc spearheaded the effort to include performance testing of products like ours for the Massachusetts Environmentally Preferable Products (EPP) Procurement Program, it made perfect sense that she would be able to help us on a global scale,” said Michael Rochon, Cogent principal and the product’s patent owner.

LeBlanc assessed the ingredients of the Ecogent General Purpose Cleaner for compliance with the European Commission’s 2001 published ecological criteria for all-purpose cleaners, before the company applied to Europe for the label. The Eco-label award gives official recognition that the product meets a high level of biodegradability and minimizes its impact on aquatic life – and, of course, cleans well. Cogent’s cleaning product already carries the U. S. Green Seal and the Canadian Environmental Choice award.

Part of TURI’s mission is to test and find alternatives to toxic chemicals on behalf of Massachusetts companies. The Institute also provides technical assistance in helping companies like Cogent in efforts to access new markets for toxic-free products.

“We congratulate Cogent on being the first North American company to obtain the label” said Charles Cox, a representative of the European awarding body. “We hope it will encourage many other North American companies to apply.”

The European Eco-label scheme covers a diverse range of 21 product groups, including textiles, paints and washing machines, and is expanding into services such as tourist accommodation. Nearly 200 licenses have been issued to date.

More information about the UMass Lowell Toxics Use Reduction Institute can be found at www.turi.org or call Carole LeBlanc at 978-934-3249. For information about European Union’s Eco-label, visit www.europa.eu.int/comm/environment/ecolabel/index_en.htm.

Nucleus Opportunity

Copywriting editors are needed on the Nucleus Editorial Staff. If you wish to volunteer your time to help with the Nucleus, please contact the Editor, Mark Spitler at 781 376 9911 or mspitler(at)chemmotif.com.
Contents

UMass Lowell’s Toxic Use Reduction Institute __________________________ 2
How to win a European Eco-label

Norris Award Nominations ________________________________________ 4
First call for nominations

Levins Award Nomination _________________________________________ 4
First call for nominations

Monthly Meeting __________________________________________________ 5
MCG Symposium in Brookline

Warren Phillips __________________________________________________ 6
Disney’s Outstanding Middle School Teacher

Green Chemistry at UMass Lowell ________________________________ 9
Graduate program begins in Green Chemistry

Carlos Samour ______________________________________________________ 11
Obituary

Speaker’s Bureau _________________________________________________ 11
Call for Volunteers

September NESACS Board Meeting Report __________________________ 11
From the minutes by M. Singer

Cover: Bridge from Boston into Brookline. Courtesy of M. Hoffmann.

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Nominations

James Flack Norris Award For Outstanding Achievement In The Teaching Of Chemistry

Nominations are invited for the 2005 James Flack Norris Award for Outstanding Achievement in the Teaching of Chemistry. The Norris Award, one of the oldest awards given by a Section of the American Chemical Society, is presented annually by the Northeastern Section. The Award consists of a certificate and an honorarium of $3,000.

Nominees must have served with special distinction as teachers of chemistry at any level: secondary school, college, and/or graduate school. Since 1951, awardees have included eminent and less-widely-known but equally effective teachers at all levels.

The awardee for 2004 was Dr. Richard N. Zare of the Department of Chemistry at Stanford University, Stanford, California.

Nominations should focus on the candidate’s contributions to and effectiveness in teaching chemistry. The nominee’s curriculum vitae should be included. Seconding letters are also an important part of a nominating packet. These may show the impact of the nominee’s teaching in inspiring colleagues and students toward an active life in chemistry and/or related sciences, or may attest to the influence of the nominee’s other activities in chemical education, such as textbooks, journal articles, or other professional activity at the local or national level.

Materials should be of 8 1/2 by 11 inch size. The nomination packet should not exceed 30 pages and should not include books or reprints or software.

Please direct questions about the content of a nomination to Professor Howard R. Mayne at the University of New Hampshire, email: howard.mayne@unh.edu. For more information about the Norris Award, see www.nesacs.org.

Send nomination packets (as hard copy, or electronically in Adobe PDF format) to Ms. Marilou Cashman, NESACS, 23 Cottage St., Natick, MA 01760: e-mail, mcash0953@aol.com.

The deadline for nominations is April 15, 2005.

Nominations

Philip L. Levins Memorial Prize

Nominations for the Philip L. Levins Memorial Prize for outstanding performance by a graduate student on the way to a career in chemical science should be sent to the Executive Secretary, NESACS, 23 Cottage St. Natick, MA 01760 by March 1, 2005.

The graduate student’s research should be in the area of organic analytical chemistry and may include other areas of organic analytical chemistry such as environmental analysis, biochemical analysis, or polymer analysis.

Nominations may be made by a faculty member, or the student may submit an application. A biographical sketch, transcripts of graduate and undergraduate grades, a description of present research activity and three references must be included. The nomination should be specific concerning the contribution the student has made to the research and publications (if any) with multiple authors.

The award will be presented at the May 2005 Section Meeting.
The Discovery of the EGFR inhibitor IressaTM (ZD1836, gefitinib)

Michael Block

Protein kinases play a key role in cellular signaling and as such they represent potentially important targets in treating a number of diseases. However, from the outset a number of key issues were apparent. Understanding the role of specific kinases in a disease setting, and the implications of inhibition, has been and remains a significant challenge. Similarly, with literally hundreds of kinases, all using ATP as a common co-factor, it was not clear that adequate selectivity to ensure appropriate therapeutic margins could be achieved. IressaTM (ZD1836, gefitinib) is a selective inhibitor of Epithelial Growth Factor Receptor (EGFR) kinase, that has recently been launched for the treatment of non-small cell lung cancer. The talk will outline the discovery of this molecule, illustrate that good selectivity and therapeutic margins are achievable, and discuss briefly how our understanding of the role of EGFR in cancer is developing.

About Michael Block:

Michael Block began his career with a 1st class honors degree in Chemistry from the University of Edinburgh in 1982 and then moved to the University of Cambridge to study for his PhD with Professor Alan Battersby working on the synthesis of Vitamin B12 biosynthetic precursors. From 1985 to 1987 he held a Nato Postdoctoral Fellowship, working with Professor David Cane at Brown University in the USA on synthesis of labeled biosynthetic precursors of the polyether antibiotic Monensin. In 1988 he joined ICI Pharmaceuticals as a medicinal chemist and has remained with the company as it first became Zeneca and then, through a merger, became AstraZeneca. He has worked in a number of different disease areas, focusing in the early part of his career on cardiovascular and anti-
The way Warren Phillips sees it, his job is to make his students better people, to help them realize what they’re capable of, and, along the way, inspire a taste for science. The 7th-grade teacher at Plymouth Community Intermediate School (PCIS) in Plymouth, MA was named Disney’s Outstanding Middle School Teacher in July, calling national attention to what those in the local education community already know. Nick Micozzi, K–12 Science Coordinator says of Phillips, “Warren wins the hearts and minds of students; he cares about them and respects them, and gives so much to individuals’ needs.”

Since 1989, The Walt Disney Company has recognized outstanding pre-K–12 teachers through DisneyHAND, its worldwide public service program. The DisneyHAND Teacher Awards honor educators who develop and utilize innovative teaching strategies. Phillips joined 38 other honorees at The Disneyland Resort in Anaheim, CA in July. The five-day event included committee interviews, professional development programs, appearances at Disneyland Park, and culminated in the awards ceremony. All honorees were awarded $10,000 and their schools received $5,000. Phillips received an additional $15,000 as an Outstanding Teacher Award recipient. In October, the 39 honorees and their principals reconvened at the Walt Disney World Resort in Lake Buena Vista, FL to showcase their expertise and develop collaborations. Among other things, Phillips highlighted his “Sing-A-Long Science” program, which he created to reinforce concepts covered in the science curriculum.

The national attention that the Disney award has brought to Phillips, including a recent guest appearance on “The Tony Danza Show”, is really a capstone on a 30-year career of dedicated and creative teaching that has evolved as science and technology, curriculum standards, and Phillips’ own expertise has evolved. Phillips earned a bachelor’s degree in earth science from Bridgewater State College in 1975. In 1989, he returned to Bridgewater State for a master’s degree in teaching physical science, followed in 2002 by a M.Ed. in instructional technology. Phillips received certification in early adolescent science education from the National Board for Professional Teaching Standards in 2000. He has also engaged in coursework at both Fitchburg State College and Northeastern University, and continues to update his internet and computer skills.

In addition to regular service as a Master Teacher, Phillips has developed curriculum for the Plymouth Public Schools and serves as webmaster for the K–12 on-line science curriculum. Phillips is also a certified national trainer for the JASON Project, a multi-disciplinary, multi-media educational program. He is a contributing writer to continued on page 7
the Prentice Hall Science Explorer textbook series and wrote curriculum and served as a trainer for Northeastern University’s Project SEED, an enhancement program for middle and high school science teachers. Additionally, Phillips has presented workshops at area colleges and secondary schools, as well as those sponsored by both the Massachusetts Association of Science Teachers and the Massachusetts Association of Science Supervisors.

The breadth of these endeavors provides the foundation for a dynamic classroom experience. Phillips’ charisma and enthusiasm for science complement a multi-media approach to teaching that taps into the varied ways in which students learn. Coordinator Micozzi characterizes Phillips’ classroom as “an exemplary model of the new paradigm for today’s students, who require an interactive, multi-media learning environment.” In addition to science toys that demonstrate fundamental scientific principles such as reflection and refraction, and games at the start of class, Phillips’ students experience science through overnight field trips, real-time observations of researchers at work, music, and even television production.

About twenty years ago Phillips, along with now-retired colleague Larry Berman introduced a three-day, hands-on exploration of life science principles by introducing PCIS students to Camp Bournedale, a summer camp for boys located in Plymouth that had a school-year outdoor education program in its infancy. At PCIS, the program has grown into an integrated, grade-wide event, one much anticipated by students. Phillips remains at the helm as its coordinator.

Phillips makes use of his expertise as a JASON Project national trainer to provide students with a real-time example of a scientific expedition. Last year, the JASON Project brought the students to a rainforest in Panama and inspired them to adopt a rainforest. This year, the students will “travel” to the wetlands of Louisiana. Because the JASON Project curriculum is integrated, it affords an opportunity for Phillips to teach with his colleagues in math, geography, and language arts. Team teaching has been the model at PCIS for nearly 30 years; Warren Phillips believes there is no better way to teach.

Warren Phillips’ signature is perhaps most indelibly imprinted on the science curriculum through his use of music in the classroom. What started in 1995 as a jingle to ingrain the first thirty elements of the periodic table on the minds of his students (“The Element Song”) has blossomed over the last five years into a series of three CDs, known collectively as Sing-A-Long Science (www.singalong-science.com). Combining his talent on the keyboard with his love of science, Phillips has created a song for each of the varied topics covered in the seventh-grade curriculum, from optics and sound to volcanoes and fossils, most set to familiar tunes. Although he has no plans at this point to produce another CD, Phillips receives a steady stream of encouragement and ideas from his colleagues. Phillips got his whole family involved with each of the three productions, including his wife Karen, a Title I teacher in the Silver Lake school district, and son Jeffrey, now a medical student at the University of Massachusetts. His daughter Kristin, then a student of and now a classroom aid for Project Forward at Cape Cod Community College provided vocals on many of the songs. The songs can be used on a number of levels in the classroom, offering an alternative and fun way to reach students with necessary information.

Another area in which Phillips has made a significant impact that benefits both PCIS and the surrounding community is through his involvement with the school’s television production studio. Over the course of his career Phillips has produced student-prepared news and information programs, broadcast to the school community and also carried on the local cable education...
The Nucleus December 2004

Warren Phillips
Continued from page 7

Students serve as on-air personalities, as well as technicians in all phases of production such as lighting, sound, computer and camera work, and stage setup. Each month, the programming includes an interview with a special guest. Featured guests have included local business owners, television news and weather reporters, professional athletes, and musicians. Recently, Phillips has engaged students in preparing science demonstrations and public service announcements, which will be aired between regularly scheduled cable programming. As broadcast technology has advanced, so has the capability at PCIS. In fact, Phillips channels most of his grant and award money toward updating the studio, with the goal of an entirely digital production.

A wider audience can also get a taste for Phillips’ flair through his web site (www.wphillips.com), which offers a glimpse into his classroom, a detailed schedule of topics matched to Massachusetts and national science standards, interesting links, and news of local interest. The site has received numerous accolades, including the “Cutting Edge Educator”, “Busy Educator”, and “Golden Web” Awards.

Although the Disney award is certainly the biggest in terms of national recognition, Phillips was also recognized in 2003 with the Time for Kids/Chevrolet “Teaching Excellence Award.” Additionally, he was a three-time state finalist for the NSF-sponsored Presidential Awards for Excellence in Mathematics and Science Teaching in 2001-2003. Among recent local distinctions, Phillips was a recipient in 2002 and 2003 of the Massachusetts Software and Internet Council’s “Above and Beyond Award”, in 2002 for “Sing-A-Long Science” and in 2003 for his television broadcast activities.

As if these many and varied activities were not enough, Phillips is also an avid gardener, both at PCIS and at home, participates in local fundraising efforts, and initiated the construction of a nature trail within his community. He also serves regularly as a local and regional science fair judge and as counselor at summer science camps, and organizes the annual PCIS student Olympics.

Of his achievements, Phillips credits his own 7th-grade science teacher for instilling a love of both science and teaching. Phillips has had his own successes in this regard, motivating at least three former students to pursue teaching 7th-grade science and many others to pursue different teaching endeavors. One of his former students is now a colleague at PCIS and Phillips was assigned as her mentor. For ongoing inspiration, Phillips cites his students, but most especially his family for its continual encouragement and support. Of his 30 years of teaching, Phillips says, “It feels like three.”

The States of Matter ©2002 Warren Phillips Used with permission (Sung to “The Battle Hymn of the Republic”)

The states of matter come from atoms’ energy they store
And it’s constantly exerted as they vibrate back and forth
As the energy accumulates, the atoms vibrate more
Phase changes can occur!
(chorus)
Solid, liquid, gas, and plasma
Solid, liquid, gas, and plasma
Solid, liquid, gas, and plasma
And now Bose-Einstein!

Solids have less energy with atoms locked in place
Liquid atoms move around and take up different shapes
Gaseous atoms move apart and fill up any space
And Plasma photons glow!
(chorus)

Now Einstein hypothesized another state exists
And more recently a scientist has found what he had missed
A state at real cold temperatures that ar-en’t in our midst
Bose found it could subsist!
(chorus) ◇

Abstracts/bios
Continued from page 5

bacterial therapy, and including two years in process research and development. From 1997 to 2002 he was involved in building research at AstraZeneca in the area of diabetes and obesity. In March 2002 he moved to Boston to help lead the newly established Oncology Research Group, and formally took up the position of Director of Chemistry for Cancer at the AstraZeneca R&D site in Boston in January 2004.

Discovery of Kinase inhibitors through a Novel approach - “Scaffold-Based Drug Discovery”™

Prabha N. Ibrahim

Plexxikon’s discovery platform is designed to discover chemical scaffolds that are broadly active on protein families sharing a common domain. Our approach uses the combination of low affinity biochemical screening and high throughput co-crystallography to identify novel scaffolds. Data from our kinase program demonstrates that in multiple instances potent and selective inhibitors with better pharmacological profile were developed with minimum iterations of chemistry. The presentation will include the approach and the discovery of kinase inhibitors.

About Prabha Ibrahim:

Prabha Ibrahim is currently head of chemistry at Plexxikon Inc. Plexxikon is a drug discovery company that uses a novel approach, Scaffold-Based Drug Discovery™, to identify drug candidates derived from proprietary scaffolds. This approach relies on the integrated efforts of structural biologists, biochemists, and computational and medicinal chemists. Before joining Plexxikon in 2002, she worked at CV Therapeutics and was intimately involved in the identification and development of a number of preclinical candidates as part of the drug discovery efforts in the cardiovascular

Continued on page 11
UMass Lowell has developed a new graduate level program in Green Chemistry in which students may obtain M.S. or Ph.D. degrees. The program at UMASS Lowell currently has 16 graduate students actively engaged in research. Funded from industrial and government sources, research projects range from ambient processing of semiconductor films and non-covalent derivatization to synthetic DNA mimics for microelectronics and nanomanufactured particles for drug and agricultural delivery schemes.

Students in the Green Chemistry program are expected to take the same classes and fulfill the same requirements as one in a conventional program, but added on to the graduate curricula are courses in mechanistic toxicology, environmental fate and transport, environmental law and policy and industrial chemistry. And of course the research has green chemistry component.

Initiated by John Warner, Professor in the School of Health and the Environment at UMass Lowell, the program involves a collaboration with several academic departments and many of the research centers on campus such as The Center for Advanced Materials and the Toxics Use Reduction Institute. Warner is co-author of “Green Chemistry Theory and Practice” and is considered by some to be one founding fathers of the field. He combines a PhD in synthetic organic chemistry from Princeton and a decade of industrial experience at the Polaroid Corporation with a passion for teaching in the direction of this program.

Warner believes that it is a common misperception that environmentally sound and sustainable technology is somehow less economically viable than traditional alternatives. In fact, several years ago this was fundamentally true. But the economic environment has changed. Chemists are beginning to realize that paying attention to the environmental and toxicological impacts of their research and products is not only the right thing to do from a moral and ethical perspective, but that it makes smart business sense. The financial implications of using hazardous materials in any commercial endeavor is significant. When a technology moves from development to manufacturing, the costs of scale that often creep into the picture center around issues related dealing with hazard. Meeting environmental regulations, filing compliance reports, monitoring waste stream emissions, and installing protection equipment to safeguard employees can render an exciting and brilliant concept useless in the marketplace. The philosophy of green chemistry, says Warner, is to address these “real world” issues head on at the earliest stage of the innovative process. By anticipating “show stopping pot-holes” on the road to commercialization, the R&D process can be made far more effective. Unfortunately, graduate students learning chemistry are often not exposed to these practical real world issues.

As Warner explains it, to walk through the Green Chemistry research labs a UML one is hard pressed to see any difference from a conventional lab. Perhaps the number of stored chemicals is a little less, and things seem a little more orderly. People who do not understand what it is, expect research in Green Chemistry to be somehow different. Perhaps they expect to see no organic solvents or fume hoods. This is not the case. The differentiation is really in the mind set of the people doing the chemistry. In over 100 years of history in the chemical sciences not much attention has been paid to human health and the environment. The “toolbox” of synthetic transformations available continues on page 10.
able to chemists is stocked full of brilliantly devised reactions. If one were to assemble a list of such transformations that do not involve the use of hazardous materials, the list would be quite short. Warner suggests that if environmental impact and toxicity had been used as a design criteria over the past hundred years, we would be in the same place as we are now, but with mostly benign chemistries, but this is not how our history has unfolded.

It is evident to Warner that one of the greatest issues facing society is that of decreasing science literacy among the general population. In order to address this, a requirement of the Green Chemistry program is that students must participate in a minimum of two community/K-12 outreach activities per year. Researchers are asked to prepare hands on educational modules that illustrate the research that they themselves are doing. The graduate students are asked to prepare explanations and demonstrations of their research in a format that can be readily understood.

By hosting groups on campus or visiting them off site, the students of Green Chemistry become ambassadors not just of Green Chemistry but of science itself. Warner coaches his students that their first job in outreach is to convince people that the chemistry endeavor is accessible to everyone. For a sustainable for future it is essential that all people understand their role as consumers and voters in the development and use of new technologies.

Warner has found that what makes the outreach activities effective is the fact that the research being illustrated is practical and relevant. The University of Massachusetts has filed patents with Warner recently on enzymatic processing of photocrosslinked polymers based on DNA mimics, ambient temperature processed semiconductor films and even one on an environmentally benign hair perming technology. The students and the public are shown that the work is not merely an esoteric exercise, but also has economically viable real-world applications. The common theme is that these are all technologies designed with the intent to make them as environmentally benign as possible.

Warner has received support from government agencies such as NSF, EPA and DOE as well as industrial support from Pfizer and Rohm and Haas. In the state, He has worked closely with the Executive Office of Environmental Affairs, Office of Technical Assistance with various research and outreach activities. Warner is on the Board of Directors of the Green Chemistry Institute with the American Chemical Society in Washington DC.

The program strikes a chord with prospective students. Warner receives a minimum of 10 inquiries a week regarding the program. “The time is right for a program like this, the students want this knowledge, industry wants students to have this knowledge and society wants industry to practice this knowledge.”

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Green Chemistry

Continued from page 9

Collaborators in Green Chemistry: Professor Jayant Kumar and Daniel Sandman from the Center for Advanced materials with John Warner.

Carlos Samour

Dr. Carlos Samour was 84 when he died this October, 2004. Born in El Salvador, he grew up in Palestine, and studied chemistry at the American University in Lebanon, where he received his bachelor’s degree (1942) and first master’s (1944). He earned a second master’s degree at MIT (1947) and the Ph.D. degree in organic chemistry at Boston University (1950). His first career of thirty years was at the Kendall Company, where he advanced to director of the Theodore Clark Laboratory, then director of the Lexington Laboratory. After a brief retirement, he returned to chemistry for a second career, founding a pharmaceutical company, Macrochem Corporation (1981). He was CEO, but also led the scientific research.

Dr. Samour was primarily a polymer chemist who devoted most of his work to solving health-related problems. At Kendall he was primarily involved in pharmaceutical research, and one of his important programs at Macrochem was centered on patches to deliver drugs through the skin.

His attachment to BU was strong. In recognition, BU honored Samour with its distinguished service award. He acted as advisor, contributed financially, and endowed a professorship in the chemistry department, the Samour Family Professorship in Organic Chemistry, dedicated to bringing in young people with fresh ideas. The first holder of the Samour Family Chair is James Panek.

Abstracts/bios

Continued from page 8

area. She also worked at Amgen and was an integral part of the small molecule drug discovery efforts in inflammation. Dr. Ibrahim earned her PhD at the University of Victoria, Victoria, Canada, and was a Welch Foundation Fellow at Rice University, Houston, TX.

Chemists! Speak to the Public about Chemistry!

The James Flack Norris Speaker’s Bureau continues its search for members willing to be a bridge between misunderstood chemistry and the general public.

Hop on this great path to free publicity for your company, chemistry, and betterment of humanity all rolled up into one and join the Speaker’s Bureau.

You choose the frequency and the location restraints of any presentations.

We offer training for best presentation practices to schools and community groups, but we need your willingness today!

Contact Marilou Cashman at the NESACS office or Susan Buta at sue@buta.org for more information.

Board of Directors

NOTE: Board Meetings are held on the monthly meeting day at 4:30 p.m

Notes of the Meeting of September 9th, 2004

Officers’ Reports:

Chair: J. Fuller-Stanley reported on the Chem. Luminary Awards- the section was finalist in three categories. The Section did not win, but did get three finalist appreciation certificates, which will be given to the Archivist. A letter of thanks will be sent to the Chemistry Department Chair at Northeastern University on the rededication of the Norris Room. Motion to send the letter passed unanimously by voice vote. On the James Flack Norris award for Physical Organic Chemistry: National needs to know if the Section will continue support for 2006-2011 inclusive.

Continued on page 12
Board of Directors

Continued from page 11

Chair-Elect: A. Tapper reported that she will attend the Advanced ACS Leadership Conference in St. Louis. 80 people have replied for tonight’s dinner.

Treasurer: J. Piper presented the May-Aug. 2004 treasurer’s report, which was accepted.

He pointed out that line 12 on the local dues has increased. This is due to raising the dues to $15 this year.

Trustees: M. Strem said that the trustees will review the Norris Award request and report back at the October Board meeting.

Councilor Report: M. Hearn stated that he, along with fellow NESAC members Doris Lewis and Tim Rose, attended the session of the Committee on Chemistry and Public Affairs, a joint committee of Council and the Board at the fall National Meeting in Philadelphia. Among the significant issues that were discussed in the meeting were the prospects for adequate funding for scientific research by the Congress and the effects of increasing globalization on the nation’s research and development enterprise, economy and workforce.

National Meeting Report: S. Lantos, Director at Large, reported that he attended the High School Day at the August National Meeting in Philadelphia. The meeting had roughly 60 attendees, mostly from the Philadelphia area. Participants heard talks on inquiry-based learning in the chemistry classroom and graduate programs for chemical education, among other lectures offered. The keynote speaker, Dr. Joseph Schmoekler from Temple University, spoke about the importance and value of a chemistry education.

Standing Committees:

Chemical Education: R. Tanner reported that the 4th Connections to Chemistry will be October 13th and is advertised on the website. Burlington High School will once again be the venue. Teachers are responding very well to the Board action last year of supplying all Connection to Chemistry attendees with a 1-year subscription to the Nucleus.

Motion by R. Tanner: To renew the program to send all Connections to Chemistry registrants 2004 a 1-year subscription to the Nucleus. Second by M. Simon. Motion passed on a voice vote.

Board of Publications: Patrick Gordon introduced Mark Spitler as the new Nucleus editor. The BOP met July 2004 and discussed the remuneration for the Editor of the Nucleus as was requested by the NESACS board at the Long Range Planning Meeting. The Board was unanimous in its conclusions not award any remuneration to the Editor at the present time. Further to this decision, Vince Gale and Dr. Gordon met with Mark Spitler, the appointed Interim Editor, to discuss, among other BOP matters, the subject of compensation for the Editor, as was the custom.

The BOP expressed its appreciation for the NESACS board’s concern and trusts that the NESACS’s board will abide by the BOP’s decision in withholding any remuneration to the Editor at this time. Furthermore, it has agreed, as a Board, to review the situation in January 2005 and to have Mark Spitler as part of any decision taken, and to solicit his input as to whether any other members of the team ought to be rewarded in a like manner. Finally, it was noted that many NESACS volunteers perform their responsibilities without remuneration.

Motion by A. Viola: The NESACS Board should continue the stipend / honorarium for the office of the Nucleus Editor. The motion was not seconded.

After discussion, A. Viola withdrew his motion and replaced it with the following Sense of the NESACS Board: The NESACS Board acknowledges the importance of paying an honorarium to the Nucleus editor and encourages resumption of the honorarium at an appropriate time in the future as determined by the Board of Publications. Seconded by W. Gleekman. Vote: 19 yes, 1 No, 2 abstain.

The chair of the Board of Publications will report back to the NESACS Board in January 2005 as part of the budget process.

Editor: Jean Fuller-Stanley welcomed Mark Spitler to the Board as the new editor of the Nucleus. Spitler reported that there are currently 3 people on the editorial staff. Other volunteers are being identified. In general, the deadlines for submissions are being pushed forward to allow for team coordination.

Constitution and By-Laws:

C. Costello: National ACS Constitution and By-laws has acted on the November 2001 by-law request for modification to the NESACS by-laws to include the Brauner book award. The modification has been approved and is ready for final section action. The final wording should be reviewed before sending the matter to the section membership for a vote.

National C&B recommends modifications to permit electronic balloting in NESACS C&B in accordance with changes at the national level. We have the correct wording from National C&B.

A proposal from C&B will be made to the NESACS Board at a future meeting.

C&B membership needs to be updated and it was requested that the NESACS Chair appoint committee members.

Membership Committee: M. Chen: 145 Welcome New Member Letters were sent on August 14, 2004. (95 were new members, 50 were members who were transferred to our Local Section).

Continuing Education: A. Viola: The
Board of Directors
Continued from page 12

next ACS Short Course will be October 28 and 29th. The announcement will be in the September and October Nucleus.

The National ACS Continuing Education coordinator is retiring in 2005. The program may go into transition and possibly not be continued on the national level.

Other Committees
Summerthing: W. Gleekman: Summerthing IV was postponed to next year due to construction.

NCW – 2004: C. Jaworek-Lopes: The Kick-Off event for NCW 2004 will be held at Wellesley College Science Center on October 17, 2004 from 10 am – 4 pm. In accordance with the theme, Health and Wellness, a number of hands-on activities and demonstrations have been identified.

The Tufts Dental Smile Squad has agreed to volunteer that day as well. A number of colleges have been contacted for participation in the kick-off event.

The Phyllis Brauner Memorial Lecture will be held on October 17, 2004 at 11 am and at 2 pm at Wellesley as well. The lecture demonstrators will be Dr. Jerry Bell and Dr. Jim Golen.

NERM: M. Simon: A report was supplied by M. Simon from the NERM organizing committee on the upcoming meeting.

Speaker’s Bureau: S. Buta reported that as of May seven members have volunteered. Active recruiting will begin in October, but Section help was requested in recruiting other members during local section meetings. The goal is to have 20 or more members committed before the program is announced to the public.

Fundraising Committee: D. Phillips stated that fourteen vendors are at today’s vendor show. The goal was 10 vendors. The vendor show will be repeated next year.

From the minutes of M. Singer ◊
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Gateway Chemical Technology .... 4
HT Laboratories, Inc............... 14
J. S. T............................... 13
Kopella Analytical Services ....... 14
Mass-Vac, Inc....................... 2
Micron Inc............................ 13
NuMega Resonance Labs ........... 13
Organix, Inc........................ 14
Organemed Corporation............ 13
PolyOrg Inc.......................... 13
Prime Organics..................... 14
PrimeSyn Lab Inc................... 15
Quantitative Technologies, Inc... 15
Robertson Microlit Labs.......... 11
SBH Sciences, Inc.................. 14
Schwarzkopf Microanalytical .... 14
Scientific Bindery................... 15
Spectral Data Services, Inc....... 14
SPEX CertiPrep...................... 15
Tyger Scientific, Inc............... 14
Waters Corporation............... 13

The Nucleus December 2004
Calendar

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http://www.NESACS.org
Note also the Chemistry Department web pages for travel directions and updates. These include:
http://chemserv.bc.edu/seminar.html
http://www.bu.edu/chemistry/events/
http://www.chem.brandeis.edu/colloquium.shtml
www.dartmouth.edu/~chem/Seminars/fall04.htm
http://www.chm.harvard.edu/events/
http://web.mit.edu/chemistry/
http://www.chem.neu.edu/web/calendar/index.html
http://chem.tufts.edu/seminars.html
http://www.chem.umb.edu/
http://www.umassd.edu/cas/chemistry/
http://www.uml.edu/Dept/Chemistry/speakers.html
http://www.unh.edu/chemistry/seminars.html

Dec 1
Prof. Larry McLaughlin (Boston College)
“Use of Modified Oligonucleotides to Probe DNA Structure and Function”
Northeastern Univ., 129 Hurtig Hall, 12 noon

Dec 2
Prof. John Simon (Duke Univ.)
Physical Chemistry Seminar co-hosted with BC Biology Dept.
“Towards Understanding the Structure and Function of Melanins”
Boston College, Higgins 310, 3:00 - 4:00 pm
Prof. Norbert Scherer (Univ. of Chicago)
Harvard / MIT Physical Chem Seminar
MIT, Rm 6 - 120, 5 pm
Prof. Donald F. Hunt (Univ. of Virginia)
“Comparative Analysis of Phosphoproteins, the Histone Code, and an Approach towards a Vaccine against Cancer”
Univ. of New Hampshire, Room L103 Iddles Auditorium, Parsons Hall, 11:10 am

Dec 3
Prof. Gregory D. Scholes (Univ. of Toronto)
“Excitons, Multie excitons, and Spin States in Colloidal Quantum Dots: Can Electron Spin Flips Be Observed Using Linearly Polarized Light?”
Boston College, Merkert 130, 4:00 - 5:00 pm

Dec 3
Sukant Tripathy Annual Memorial Symposium:
Dr. Dong-Yu Kim (Kwang-Ju Institute of Science & Technology, Korea)
Dr. Randy Holmes-Farley (Genzyme, Waltham, MA)
Prof. Takeshi Ogawa (UNAM, Mexico City)
Prof. Mary Galvin (Univ. of Delaware)
Prof. Dong-Young Kim (Korea Institute of Technology, Korea)
Dr. Russell Gaudiana (Konarka Technologies Inc., Lowell, MA)
Prof. Serdar Saricifici, (Univ. of Linz, Austria)
U Mass Lowell,
Wannalanct Mills MIL Conference Room,
600 Suffolk St., Lowell, MA,
8:15 am - 4:45 pm
Pre-registration is required by November 19, to Michele.Vercellin@uml.edu.
Directions are at
www.uml.edu/research/directions.html

Dec 5
Prof. Eric Kool (Stanford Univ.)
“Mimicking the Structure and Functions of DNA”
Boston Univ., Science Center Auditorium, Room 107, 4:00 pm
Prof. Brian Crane (Duke Univ.)
Biological Chemistry Seminar
MIT, Room 6-120, 4:00 pm

Dec 7
Prof. John Reif (Duke Univ.)
“Self-Assembled DNA Nanostructures for Molecular Scale Patterning, Computation, and Motors”
Tufts Univ., Pearson Chem. Bldg., 62 Talbot Ave., Room P-106, 4:30 pm

Dec 9
Prof. Sharon Hammes-Schiffer (Penn State Univ.)
Harvard / MIT PChem Seminar: “Motion in Enzyme Catalysis Hydrogen Tunneling and Protein”
Harvard Univ., MB-23 Pfizer Hall, 12 Oxford Street, 5:00 - 6:00 pm

Dec 13
Dr. Jack Szostak (Mass. General Hospital/Harvard Medical School)
“The Transition from Chemical Evolution to Darwinian Evolution”
Harvard Univ., Pfizer Lecture Hall, 4:15 - 5:15 pm

Dec 15
Prof. Carolyn R. Bertozzi (Howard Hughes Medical Institute Univ. of California Berkeley)
MIT, Room 6-120, 4:00 pm

Dec 15
Prof. Catherine C. Neto (UMass Dartmouth)
“Phytochemicals behind the Potential Health Benefits of Cranberries”
UMass Dartmouth, Science & Engineering Building (Group II), Room 305, 4:00 pm

Dec 16
Prof. Carolyn R. Bertozzi (Howard Hughes Medical Institute Univ. of California Berkeley)
TY Shen lecture: “Mycobacterial Sulfation Pathways in Virulence and Host-Pathogen Interactions”
MIT, Room 6-120, 4:00 pm

Notices for the Nucleus Calendar should be sent to:
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