Dear Alumnae and Alumni,

Greetings! The campus is getting a new look this year. The building at the corner of Morris and Yarrow which used to house "The Owl" Bookshop has been renovated and enlarged to become the home of Admissions, Financial Aid and Public Information. The enlarged building stays faithful to the style of the old, which was designed by famous Philadelphia Architect Frank Furness. There are also improved and better-lit paths and lots of new plantings that you are sure to notice when you visit.

In departmental news, we are happy to welcome Michael Noel who now occupies the fourth tenure-line position in the department replacing Nealf Abraham (see "News from Neal" below). Mike did his Ph.D. work at the University of Rochester and comes to us after a post-doc at the University of Virginia. He does Atomic, Molecular, and Optical Physics. His research focuses on understanding and controlling resonant energy transfer in ultra-cold samples of highly excited atoms. He uses laser cooling and trapping techniques to prepare and manipulate the atomic samples and studies the extremely long range, many-body interactions that result when the atoms are excited to weakly bound states. Exciting stuff!

We are also happy to welcome Sunme Kim. She replaces Stiliana Antonova who has moved on to Barnard. Stili's husband, Sergei, started teaching at the Columbia Business School this fall. Sunme came from Korea to pursue a Ph.D. in general relativity at the University of Cincinnati. We may still hold the record for the most nationally and ethnically diverse department on campus.

Of the "next older generation," Juan Burciaga has just about completed the transformation of the introductory laboratories with the introduction of multicolored iMacs running Vernier interfaces and sensors. Some of the experiments are new but many of the "oldies but goodies" remain. Matthew Rice continues to teach a mix of introductory and advanced courses and Chuck Samuels continues to help us out by teaching one course a semester.
Three of the "older generation" remain -- Al Albano who is on leave this academic year but continues to be chaotic, Peter Beckmann who is currently department chairman, and Ann Daudert who continues to run the place. Although Mary Scott has retired, we continue to see her every now and then, especially since she has been drafted to chair the "Friends of the Library Committee" by Elliot Shore, the Director of Libraries. Occupying the middle ground (or should we start including her among the "old folk"?), Liz McCormack has readjusted to Bryn Mawr life after her Parisian sabbatical and her lab is once again running full tilt. She is enjoying making the most of being the NCAA faculty representative this year (no hot cars for the athletes yet, though).

Graduate 'tude' t' . Hana Dobrovolny graduated last May, with an M.A. thesis on nonlinear dynamics under Al Albano's supervision. She is now in the Ph.D. program at Duke. Bob Ekey, the one continuing full time student, continues to work with Liz McCormack and expects to finish his M.A. this year. This fall, Bob was joined by two incoming full-time graduate students, Ahmed Rashed ( B.S., University of Maryland, Baltimore County), and Tom Carrollf (B.S., University of Richmond). Steve Hess continues as a part time student while working full-time as an engineer at Sensortex, a n engineering researchf laboratory in nearby Newtown Square, PA.

Undergraduate' . We graduated 1f A.B.'s last May including this year'sf Slaughter Fellow, Edina Sarajlic. Edina is one of this year's six finalists for the American Physical Society's National Apker Award for Undergraduatef Research. She has worked on various projects in Liz McCormack's lab since thef summer after her sophomore year. As has now become the norm, a number of majors spent the summer on research and other science related internships, here and elsewhere. This past summer we had one on campus; others were thef Univ. of Chicago, National Renewable Energy Lab. in Golden, CO, Kansas Statef Univ., Univ. of Pittsburgh, NASA Ames Astrobiology Academy, West Chesterf Univ., and Indiana Univ. Cyclotron Facility.

Reunion2000 brought back many alums including Tina Mello, i88, Anne Fryf and Jennifer Brereton i9f, Kyoko Ohashi, Holi Rightmyer, Maria Ikenberry andf Catherine Herne i95.

Some of you have reported that you did not receive last year's newsletter. Ourf apologies. To make up for that, the "we hear that" section below includesf items from last year as well as this year. We are also sending an electronicf version to all of you whose email addresses are in the department files. If wef don't have your email address, please send it to us. We plan to make thef department web page interactive so in the near future, you can update yourf addresses directly on the web.
Now, for the "we hear that" 'ection!.. We apologize in advance for any éoldf

evisi. Please update us either via the web, adaudent@brynmawr.edu or on thef

torm attached to this newsletter.f

New' from Neal Abraham Ö (excerpted from a recent letter). Öseniorf
theses and contributing work of Lisa Everett '9f , M.A.'9f , Vadaf
Seccareccia '96, Mary Beth Janicki '93, Cristina Iwata, '93 and Lidijaf
Sekari' '97 as well as Lowell Carson's '95 M.A. work will appear thisf
summer in Physical Review A in a paper that also includes work by ourf
collaborators and Bryn Mawr visitors Yakov Khanin and Pavel Khandokhinf
rom Nizhny NovgorodÖf

I am enjoying my work as chief academic of icer at DePauw, helping manyf
uculty colleagues to achieve success in their teaching and scholarly work.f
My work in physics has slowed, but I am still publishing occasionallyf
with my colleagues in Russia and Belarus and final papers have come outf
on my work with Cristina Masoller (Ph.D. '99). The latest version of myf
ong essay on reasons for the success of Bryn Mawr's physics departmentf
on educating women was included in a new book entitled "Mentoring thef
Whole Life of Emerging Scientists", in Coming Into Her Own, edited by S.f
Davis, M. Crawford, and J. Sebrechts (Jossey-Bass Inc., 1999). And last,f
but not least, in the course of the year, the final report of the Committeef
on Undergraduate Science Education of the National Research Council onf
which I served for a number of years and for which Minna Mahlab '9f
served as a staf member, appeared: Transforming Undergraduatef
Education in Science, Mathematics, Engineering and Technology,f
Committee on Undergraduate Science Education, Center for Science,f
Mathematics, and Engineering Education, National Research Councilf
(National Academy Press, Washington, DC, 1999).f

Ha' ia Al-Hallaq '94, is in her final year for her Ph.D. in medical physicf
at the University of Chicago. She has published one paper and is startingf
the group work for her thesis. She came back to Bryn Mawr for her 5thf
year reunion in June, ë99f

Greg Alma', Ph.D. '91 has left Rollins College in Florida and joined CVI,f
an optics firm, as a Research & Development Manager.f

Caroli' a Artacho Guerra '99 is also working with CVI but at theirf
Connecticut branch.f

Cha' tity Bedonie '97 has finished her M.Ed. at Arizona State and nowf
works at the National Indian Gaming Commission in D.C.f

Ke' dra Burba' k '00 is spending a year at the University of Pisa beforef
starting graduate work in physics at Harvard in 'f 1'-f .f

**Lowell Car' o', M.A. '95** taught high school physics in Philadelphia for af
year and is now working in a patent law of ice also in Philadelphia.f

**Joa' a Lee Ca' on''87** at Los Alamos did some recruiting of undergradsf
and grads at BMC in winter i98.f

**Zhiga' g Che', Ph.D. '95** reports continued progress and success at Sanf
Francisco State University and the birth of a second child.f

**Pam Chu '85** of the National Institute of Standards and Technologyf
(NISY) was awarded one of f 5 physics-related researchers recognizedf
among the 6f recipients of the fourth annual Presidential Early Careerf
Awards for Scientists and Engineers, the highest honor bestowed by thef
U.S. government on young professionals at the outset of their independentf
research careers. This award is the successor to the "Presidential Youngf
Investigator Awards" of the mid-8f 's and early 9f 's.f

**Su' a' Cree Power', '68** has taken early retirement from AT&T where shef
was doing systems planning (EDP type and is thinking of doing somethingf
part time with more social impact).f

**Jea' e Di Grazio, M.A.'92** has just earned her Ll.M. (Intellectulf
Property) degree from Franklin Pierce Law Center.f

**Fabio DiTeodoro, Ph.D. i99** has finished his post-doc at Sandia Nationalf
Labs and is beginning a permanent staff position at the Naval Researchf
Laboratories in DC.f

**Chri' ti' a Erwi', '98** is working as a software engineer at Raytheon in Rhof
Island. She entered Brown's Masters program in Computer Sciencef
in Spring f .f

**Li' a Everett '92, M.A.'92** was the department's first colloquium speakerf
in Fall, 99. She is currently a postdoc in the elementary particle physicsf
theory group at Michigan. Neal Abraham writes that she stayed with themf
en route to giving a talk at the Field Theory Research Seminar at Indianaf
University.f

**Ra' h' a Gi' walla '99**, is enrolled in USC's medical school.f

**Meli' a Gree', '97** works at an e-commerce consulting firm and hasf
taken over organizing the monthly Philadelphia Alumni Happy Hours.f

**Naomi J. Hala', Ph.D. '97** was promoted to Full Professor in Electricalf
and Computer Engineering at Rice effective July 1999. She also received a joint appointment in the Chemistry Department. At present she is supervising 11 graduate students who are matriculating in a total of six different departments (Physics, Chemistry, Applied Physics, Material Science, Chemical Engineering, and Bioengineering). She was recently awarded a $5.5 million dollar Army grant at the Center for the study of Metal Nanoshells, a type of nanoparticle that her group recently developed with tunable optical properties. This nanoparticle research was featured in a Business Week "Developments to Watch" Section in May 1999. Check out her group's research on her website http://www.ere.rice.edu/~halas. She and her husband (also a Full Professor in Physics at Rice) are actively pursuing a wildlife and brush management program on their 35-acre ranch in South Texas.

**Daria Halkide** '98 is at the University of Colorado at Boulder doing Environmental Science, after working with Americorps in Chicago doing both elementary school and high school teaching projects.

**Lawrence Holladay** d, Ph.D. '62 is a visiting professor at the Universidade do Vale do Paraiba in Brazil. His career path has included Lehigh University, ITA (Brazil), NASA, Univ. of Alabama, Alabama A&M, and retired, and now UNIVAP! He is thinking about retiring again to raise cows and build an airplane.

**Chris Iwata-Schneider** '93 is on maternity leave from Lower Merion High School while staying at home to care for her son, Benjamin Casey. She is teaching "Secondary Science Methods" at the University of Delaware this fall.

**Mary Beth Jacobson** '93 has completed medical school and gotten married. She is interning in Obstetrics at the University of Connecticut.

**Matty Lau** '97 taught in Saddle River, NJ and now is at the Berkeley Carrol School in Brooklyn, teaching science to seventh and ninth graders.

**Euice Lee** '97 has started graduate work at MIT (biology) after working at the NIH for two years.

**Hong Li**, Ph.D. '91 continues to do well at Bates College.

**Su-Ni Liu** '83 has worked 13 years at Exxon and has recently moved on to Telcordia Technologies (formerly Bellcore), in the Web Engineering and Services group.
De' po Louca '90, M.A.'92 has finished her postdoctoral stint at Los Alamos and has moved on to the University of Virginia.

Mi' a Mahlab '90 is continuing to have great success directing the science and mathematics teaching and learning center at Grinnell College.

Kathari' e Marti' '96 is working at a small law firm using her physics background since the company's practice involves many high-tech companies. She plans to enter Law school at the University of Oregon to study Environmental Law.

Cri' ti' a Ma' oller, Ph.D. '99 reports that she has returned to her new house in Montevideo and enjoys teaching but she is also doing postdoctoral visits in Europe, particularly to the University of Nice (Institute Nonlineaire de Nice where Gian Luca Lippi, Ph.D. è9f is working) and to the Universitat de les Illes Balears.

Dave McGee, Ph.D. '95 has moved from Moravian where he built a strong physics and chemistry research program on photorefractive polymers while enjoying teaching a full range of physics courses as the youngest of a department of three faculty members. He has now completed his second year at Drew University in a tenure-track position and the reports from both his former Moravian colleagues and from his Drew colleagues indicate that he is off to a good start there, as expected.

Patricia Mooney, Ph.D. '77 was appointed to the Editorial Board of Physical Review B for three years beginning January 1998. In October 1998 she was elected Fellow of the AAAS. In February 1999 she was elected Vice Chair of the Division of Materials Physics of the APS.

Elizabeth Niemeyer '94 will begin working as a patent attorney at the law firm of Finnegan Henderson in D.C. after she takes her bar exam.

Meli' da Nickel' on '98 taught for a year in Japan and has started graduate school in applied physics at Michigan. The BMC contingent at Michigan keeps growing.

Sally Oey f86 started her second postdoc in January at the Space Telescope Science Institute in Baltimore.

Kyoko Oha' hi è95 is still pursuing her Ph.D. in oceanography at SUNY-Stony Brook. She successfully defended her thesis proposal this summer. She also had the opportunity last summer to compete at Las Vegas in the all-U.S. championship tournament in kendo, which is
Japanese fencing.

A' O'Neill '83 who is on the Wellesley faculty says that their SPSf chapter has put together a calendar of women in physics (http://www.wellesley.edu/Physics/sps/cal.html). Check it out!

Ni' a Pa' dey '00 has been accepted into the Physics forf Entrepreneurship program at Case Western Reserve. She believes that she is the only woman and the youngest student in the program.

Cy' thia Wyeth Peter' on"'54 was in Philadelphia as a judge for thef International Science Fair in May and has just finished her sabbatical at Yale doing computational structural biology.

Li' a Pollack '92 got her Ph.D. from Tulane in May, 1999 and is now anf Assistant Professor at Xavier University in New Orleans.

Li' ette Prawirodirdjo '93 received her Ph.D. in earth sciences at thef University of San Diego and started a postdoc immediately at the samef place.

Dolore' Pretorius' '74 is a full professor in radiology at UC/San Diego.f She writes that she uses "those physics skills from Bryn Mawr developngf 3-D ultrasound imaging." Check her out at http://3Dultrasound.ucsd.edu

Je' ica Ree '99 is on Wall Street working for the Riskmetrics Group.

Joli Rightmyer '95 is starting graduate work in Mechanical Engineering at Maryland in Fall after working as an electrician for a year,f working for a semiconductor company in San Diego that designs specialtyf adhesives for silicon chips for three years, and working as a carpenterf prior to the start of the ef -if 1 school year. She is interested in designingf hybrid automobile engines.

Edi' a Sarajlic '00 won the Slaughter Fellowship this year and is of tof Stanford to do graduate work in Physics. She was also one of six finalisf for the APS's Apker National Award for Undergraduate Research this pastf summer. The research she did with Liz will be published in Phys. Rev. A.f this fall.

Cy' thia Schwartz '87 has been working at Hewlett Packard but hasf been thinking of earning a graduate degree in astro-geophysics. She hasf been taking graduate classes at the University of Arizona in Planetaryf Sciences. In summer she is participating in SAGE (Summer of Applied Geophysical Experience) for field experience at Los Alamos. Shef is applying to enroll full-time in the graduate program in planetaryf
sciences at U. Arizona next fall.

Vada Seccareccia '96 reported from Brighton, MA in January that shef had been accepted in four of the five architecture programs to which shef applied and that she has decided to enroll at Rhode Island School of Design beginning this fall.

Laura Sivitz '86 is an intern at Science news as part of her graduatef program in journalism at Northwestern. Her first byline at S appearedf in its Sept. f , f issue.

Laura Smilowitz '87 started to work back at Los Alamos last year afterf spending a couple of years away on a post-doc job in Boston.

Lidija Sekaric '97 has been in the applied physics Ph.D. program atf Cornell since Fall '98.

Eri' Slonaker '99 wrote that things are going well at Book Soupf Publishing. She is proud of their new bestseller: "The Worst-Case Scenariof Survival Handbook" (co-written by her boss Dave) which has beenf eatured on the Today Show and f /. She is living "at the edge off Society Hill with a deck all to herself that's larger than her living room."f She reports her excitement that her senior research with Peter will f become part of "a giant paper for the Journal of Chemical Physics".

David Schwamb, Ph.D. '79 is a Senior Staff Scientist at Boeing. He saysf hello to everyone via Nancy Vickers who met him in California this pastf spring.

Alice Towey '98 is an intern in an environmental engineering firm inf Texas. She expects to enter graduate school for Environmentalf Engineering.

Aurora Vice' '85 continues to teach high school in Palma de Mallorcaf and still works occasionally with Maxi San Miguel's group at thef Universitat de les Iles Balears when she is not tending her daughterf Maritxell.

Michele Walter' Costa '84, who was the first BMC student to go on tof the now defunct BM Caltech 3-f engineering program is greatly involvedf with her church while she raises her three sons and pursues writing andf poetry as a hobby.

Elea' or Warfield '96 finished two years with Teach for America. Afterf slowly making her way to Seattle via South America, Spain (where shef learned to play the medieval harp and visited with Aurora Vicens '85 inf
Mallorca), and France (where she was firming up her French language skills), she has entered graduate school in Physics at the University of Washington.

**Tracy Weber '97** is living in Brooklyn and working full time at the Columbia School of Public Health and going to grad school part-time for her master's in public health.

**A' Wehrle '78** is still at JPL doing astrophysics when she is not raising her two children (girl age 7, boy age 3).

**Heather White '97** passed her examinations at the University of Siegen (Germany). She visited Aurora Vicens '85 in Mallorca to escape the German winter and says she is considering a "semester abroad" to a more sunny country.

We are proud of all of you, the diversity and complexity of your lives and careers, and your continued interest in the College and the Physics Department. Please keep your e-mails, cards and letters coming and we will do our best to share messages and news in future letters. We look forward to your visits and hope to see many of you in the coming year.

We hope you will continue your financial support for the College's programs. Support for the general funds of the College gives maximum flexibility to direct resources to buildings, faculty, financial aid or programs. However, if you wish to restrict your contributions to support programs in physics, we urge you to consider contributing to the endowment of the Marion Reilly Chair (the partially endowed professorial position held in turn by Walter Michels, Rosalief Hoyt, and Alfonso Albano), to the Helen Schaefer Huff Fund which provides income to support a postdoctoral position that alternates between the physics and chemistry departments, or the Anna Pell Wheeler Fund which supports the department's colloquium series or the Physics Mentoring Fund which has just been established using the mentoring award which the department received from the White House in 1997.

Sincerely,

Al Albanof
aalbano@brynmawr.edu

Peter Beckmann
pbeckman@brynmawr.edu
Coming to Bryn Mawr (more detailed information will follow)

Symposium on 'Women in Science'

How do we best use new learning technologies and practices to bring women into science, math, and technical disciplines? How can women leverage the growing network of women in science and technology fields to achieve additional institutional changes? These and other issues will be the subject of a symposium entitled "Women in Science: Leveraging Opportunity in a Changing Landscape" hosted by Bryn Mawr. The symposium will examine new possibilities and challenges for women in science and technology, specifically in the context of technological and structural changes that are transforming science education and workplaces. The event will include a panel of commentators on the current "state of the union" for women in various science and technology sectors; keynote speeches offering policy perspectives on women and the changing science workplace; and breakout sessions to formulate proposals to address specific issues and identify models of success in science education and practice. Organizers hope to gather a diverse audience of alumnae, representatives from varied science and technology companies, science educators, and others interested in issues concerning women in science.