In preparation for my first column in the department's newsletter, I turned to the columns of my predecessors: Barbara Greim, Ron Vetter and Sridhar Narayan. I found, while technology is changing, the department news and needs remain constant.

Greim's first column welcomed new faculty. I have had the wonderful job of welcoming two new assistant professors to the department. Under Narayan's care, we brought Hua Li to our department to teach digital arts courses. Once here, we found she had received the prestigious Alain Fournier award for the best computer graphics dissertation in Canada in 2013 (see later in the newsletter for more information). This fall, thanks to the very hard work of the department this summer, we welcome HyunBum Kim to teach networking. Both faculty members are, of course, also teaching other courses!

In her second newsletter column, Greim reflected on enrollment pressures. She wrote of the department starting to use JAVA as the common programming language. Fall 2013 saw a switch in the department to using Python for the first two programming courses and using JAVA in the third course. For those of you who remember course numbers, CSC 121, 221, and 332 have gone by the way. CSC 131, 231, and 331 have taken their place! We are also enjoying high enrollment in the department with our enrollment numbers over 220. These numbers are outstanding and become even more noteworthy when you add in the enrollment of our joint program (with Cameron's Information Systems / Operations Management Department) in Information Technology. When the program was proposed, we thought we would have 50 at the end of the second year...not more than that at the end of the first year!

Vetter's first column focused on "Student Outcomes Assessment" and preparation for re-affirmation of accreditation by the Southern Association of Colleges and Schools. Under Narayan, the department became accredited by ABET. Student outcomes assessment continues to meet our accreditation needs and the needs of the college and university. Assessment has continued to become an important focus as we strive to assess what students have learned and how can we tell what it is they have learned. As important as it was in 2001, it has become even more important in 2014. After an extensive national search, Vetter was named the associate provost for research and dean of UNCW Graduate School in April.

Narayan's first column in 2007 spoke of Emma Kay Thornton, donor generosity, research grants and continued changes in the curriculum. Thornton continues to hold us together. This past year, she was nominated for a UNCW Outstanding Staff award and the College of Arts and Sciences award. She won the latter.

We continue to receive generous donations to the department. I have reached out to donors with some success. The benefits that students have reaped from their generosity are briefly mentioned in later pages. Students have published and travelled to present their research. Thanks to donor generosity, we have had students working with LEAP Motion Systems and Google Glass, just to name a few cool pieces of hardware.

Faculty members continue to apply and receive grants for a variety of topics ranging from speech to face recognition to providing teachers with skills to teach STEM. And, our curriculum continues to bring interest from other departments within UNCW. We have two programs in conjunction with Cameron's Department of Information Systems and Operations Management (the MSCSIS and the BSIT), a new music technology minor collaboration with the Department of Music, participation in a STEM Learning Community, continued collaborations for the B.S. in computer science with the various options of biology, business, chemistry, digital arts, GIS, statistics and a new proposed option with the neuroscience minor.

While some things change, other things stay the same. It is a great time to be in this field and in this department! Please, tell us your celebrations and noteworthy items!

Laurie J. Patterson
Ed.D., associate professor and chair
Friends and Colleagues Mourn the Passing of UNCW Computer Science Department Founder, Dr. Barbara A. Greim

In 1969, Barbara Greim achieved her lifetime goal of being a teacher when she joined the faculty of the Department of Mathematical Sciences at the University of North Carolina Wilmington. She immediately began to improve the resources available in the UNCW William Madson Randall Library, an interest that continued throughout her life. At UNCW, Greim developed the passion for computer science that was the focus of most of her scholarly pursuits for the rest of her career. She also served on numerous campus, university-wide, and statewide committees and boards during her years at UNCW. Greim's efforts in developing the UNCW Computer Science program was recognized in 1998 when UNCW established the Department of Computer Science and named her interim chair, a position which she held until her retirement in July 2000 after 31 years at UNCW.

Prior to her career at UNCW, Greim received a National Merit Scholarship which she used to attend Ursinus College, Collegeville, Pa. Greim received her Bachelor of Science degree in mathematics magna cum laude with honors from Ursinus College in 1964. She did her graduate study at the University of North Carolina at Chapel Hill, where she received her Ph.D. in mathematics in 1970.

New Degree Launched Fall 2013: B.S. Information Technology

The Information Technology (IT) major is an interdisciplinary major shared by two departments: the Department of Computer Science and the Department of Information Systems and Operations Management. The two departments bring different strengths and perspectives to this unique major. This multi-disciplinary program leads to a B.S. degree in information technology (BSIT). See more at www.uncw.edu/bsit/

The program closely follows the guidelines set forth by professional societies for specialized programs including the Association for Computing Machinery, the Association for Information Systems, and the IEEE Computer Society.

The program develops students’ skills in the critical and practical understanding of information technology and prepares them for information technology-related work and/or further study at the graduate level. The curriculum provides a foundation for information technology professionals to have a perspective of the rapidly expanding and evolving science of technology and how it can be managed and leveraged to support business activities.

The primary educational objective of the program is to produce graduates who can enter into and advance in the professions of information technology as well as continue their education and obtain advanced degrees in this and related fields. With regard to program outcomes, graduates must be able to evaluate current and emerging technologies; identify user needs; design user-friendly interfaces; apply, configure and manage IT technologies; assess IT impact on individuals, organizations and the environment; and apply fundamental IT concepts and strategies to real-world problems.

Enrollment has already surpassed initial estimates. Fall semester 2014 will begin with more than 56 IT majors!

How Cool is This?

The department received a gift of 15 Intel® Galileo Development Boards which will be available for classroom use beginning fall 2014!
Faculty Focus


**Ralph Bradley** continued to manage the department’s very successful internship program and served as the department’s industrial development officer coordinating the department’s advisory board. He also serves as the department’s new assistant chair.

**Clayton Ferner, Richard Brown, Joel Adams, Elizabeth Shoop and Barry Wilkinson** presented the panel session "Teaching Parallel Design Patterns to Undergraduates in Computer Science," SIGCSE 2014, Atlanta, Ga., March 2014.


**Hua Li** successfully completed her Ph.D. and will be promoted to assistant professor for the fall. She also received the prestigious Alain Fournier award for the best computer graphics dissertation in Canada in 2013. Her dissertation was "selected through a juried process by a selection committee consisting of accomplished researchers in computer graphics." It is titled, "Perception-Motivated High Quality Stylization."

**Sridhar Narayan** received funding for "SIMPLE – Simplified Image Processing for Learning Enhancement," from the CAS Summer Curriculum Development Initiative.


**Eric Patterson** joined a beta-test team for the new Unreal Engine 4 C++-based game engine developed by Epic Game Studios. He also presented "An Improved Rendering Technique for Active-Appearance-Model-Based Automated Age Progression," at SIGGRAPH, Anaheim, Calif., July 2013.

**Laurie Patterson** presented "Social Networking for Leaders," Bridges XXI, at the University of North Carolina with Jacqueline M. Olich and Margaret O’Hara, November 2013 and "Quiet Success" at the 2013 Grace Hopper Celebration of Women in Computing, Minneapolis, Minn. with Lavanya Ramakrishnan, Ellen Walker and Yuqing Melanie Wu, October 2013.


**Congratulations to the following department members for being recognized by one or more graduating seniors as someone whose impact on them was significant during their undergraduate or graduate years:**

- Gur Adhar, David Berman, Ralph Bradley, Clayton Ferner, Marni Ferner, Curry Guinn, Eric Patterson, Laurie Patterson, Karl Ricanek, Gene Tagliarini, Devon Simmonds and Ron Vetter

Continued on p. 6
Awesome Accomplishments

Curry Guinn was invited to be the guest speaker at Commencement Ceremonies for the Sciences, Humanities and Graduate Liberal Studies in the College of Arts and Sciences, May 2014.

Ron Vetter was selected as associate provost for research and dean of the Graduate School after an extensive national search.
He comes to the position with a strong record of success in the areas of research and graduate education and has served on the UNCW faculty for nearly two decades. His appointment became effective July 1, 2014.

Clayton Ferner was appointed graduate program director with endorsement from both departments and all three deans, July 2014.

Hua Li received the prestigious Alain Fournier Ph.D. Award for the best computer graphics dissertation in Canada for 2013.

Computer Science had its first patent issued: "Demographic Analysis of Facial Landmarks," which is assigned to Karl Ricanek and UNCW as of April 2014.

Ricanek also received the CAS Research Faculty Award, May 2014.

Jack Tompkins was recognized as a UNCW Lecturer of the Year Award, September 2014.

Emma Kay Thornton received the CAS Staff Excellence Award, May 2014.

Emma Kay Thornton, front row, second from left, earns well-deserved recognition.
Student Showcase

Andrew Harnage, Douglas Flagg, Amber Whittemore and Devon Simmonds co-authored "A Case Study in the Model-Driven Development of CorkBoard – a WebApp for Collaborative Work," which was presented at the International Conference on Software Engineering Research and Practice (SERP), July 2013.

Katelyn Kerns presented her honors thesis work "3D Face Mesh Correspondence Methods," Eric Patterson advisor.


Erik Willis, Sean Saunders, Nathan Cate, Jean-Paul Muyshondt and Devon Simmonds, published "Rift Runners – Engineering Software for a Remotely Controlled Rover, in the 2014 International Conference on Embedded Systems and Applications (ESA'14) proceedings, July 2014.

The following students completed their directed individual study (DIS) topics during the 2013-14 academic year:

**Zachary Ambrose:** "Models of Language Use of Persons with Alzheimer's Disease," Curry Guinn advisor.

**Peter Lawson:** "Development of parallel applications using Paraguin," Clayton Ferner, advisor.

**Chad Ponthieux** developed a palm gesture system for controlling a UAV drone. The system was a huge success and was featured at the undergraduate research showcase.

**Benjamin Singer:** "Models of Language Use of Persons with Alzheimer's Disease," Curry Guinn advisor.

The following students successfully completed their internships:

**Jeremy Davis** – Atlantic Telephone Membership Cooperative

**Kasey Eljoudi** – Seahawk Innovation Fund

**Kyle Willcox** – TriTech Software Systems

**Racheal Lenig, Kinesh Padia and Grayson Spease** – Corning

**Zachary Ambrose, Harry Atwal and Alexander Aziz** – UNCW TAC

**Michael Bernard and Dana Pruitt** – Credit Suisse

**Bryan Florkiewicz** – IBM

**Ben Singer** – National Security Agency

**Kelsey Smith** – AAI Textron

**David Whitman** – Corning

The following students' work were recognized by the first UNCW Student Research and Creative Scholarship Showcase

◊ **Harry Atwal:** "Facial Recognition on A.R. Drone," Karl Ricanek, advisor.

◊ **Andrew Harnage:** "Incorporating Gesture Recognition Software with American Sign Language," Karl Ricanek, advisor.

Upsilon Pi Epsilon, founded in 1967, is the only international honor society for the computing sciences. Over 120 institutions of higher education around the world have established UPE chapters to recognize scholarship and professionalism. UPE was officially recognized by the ACM in 1967 and the IEEE Computer Society in 1992. See more at http://upe.acm.org.

Faculty Focus (continued from p. 3)


Jack Tompkins returned to full-time teaching after serving two terms as assistant chair.


The department also welcomes new associate professor HyunBum Kim who received his Ph.D. in computer science from the University of Texas at Dallas. His research interests include algorithm design/analysis/optimizations in various areas including wireless sensor networks, mobile computing, cyber physical systems, distributed computing and cyber security.
Alumni News

Harry Atwal ’14 was selected by Oak Ridge National Labs for a prestigious summer appointment. He was also a featured student at April's UNCW Board of Trustees meeting where he demonstrated some of his work in the area of UAV's and biometrics.

Upon completion of her MSCSIS degree, Dali Hiltebeitel ’14 was quickly hired by TAC as a tech support specialist. She is responsible for the overall supervision of TAC to ensure client success and satisfaction.

John Robertson ’12 was hired as an account development representative by Blackbaud, Inc. in Charleston, S.C. and is thrilled with his new career working with donor databases.

Pamela Rosoff ’09 is an associate program manager at SchoolDude in Raleigh.

Ricardo Valea ’09 is a mobile development team section manager - software engineer at TASC, Inc.

To be included in the next newsletter, please send an email to mferner@uncw.edu.
We welcome your recent professional and personal news!

Positive Enrollment Numbers
Spring 2014 enrollment numbers indicated over 220 computer science majors — three times more than just five years ago!

More Great Stuff
MSCSIS student Jazmin Capezza and president of the UNCW’s chapter of the Association for Computing Machinery, advises Wired Wizards, a Wilmington area high school team which competed for its second year in a robot building competition in Raleigh. They also placed third in the student exhibit competition at the 2014 Wilmington Information Technology eXchange (WITX) held at UNCW.

Don’t miss the UNCW-ACM website: http://student.uncw.edu/org/acm/
Congratulations to Our Recent MSCSIS Graduates!

Fall and Summer 2013 Master’s Degrees and Theses Titles:


Rebecca Brown, "Development of a Novel Game with Adaptive Learning Agents," Curry Guinn, advisor.

Aaron Caldwell, "ArcGIS Server: An Application Migration, Application Template Construction and Server Analysis & Design for the University of North Carolina Wilmington Department of Geography & Geology," Douglas Kline, advisor.

William Edwards, "Development of White Spaces Applications: Results from a Series of Projects in New Hanover County," Judith Gebauer advisor.


Adalia Hiltebeitel, "A UML-Based Comparison of Model Transformation Tools," Laurie Patterson, advisor.


Spring and Summer 2014 Master’s Degrees and Theses Titles:


Congratulations to Our Recent B.S. Graduates!

Bachelor Degrees Fall 2013:
Zachary Gene Ambrose
Brianna Grace Anthony
Nathan James Arnold
Michael Brian Bernard
Nathan Delane Cate, II \textit{cum laude}
Hunter M. Crim
Cory William Dawson
Douglas Gerard Flagg
Nicholas Peter Gerzsenyi
Charles Andrew Harnage
Christopher R Hetem
Roger Ray Johnson
Richard Andrew Jones
Christopher Matthew Keller
Michael P. Larsen,
Brenan Lee Martinez
Colby Gage Melvin
Chad Michael Ponthieux
Sean Michael Saunders \textit{magna cum laude}
Zachary Philip Tomkoski

Bachelor Degrees Spring and Summer 2014:
James John Allen \textit{cum laude}
Michael Gregory Allen
Michael Charles Ames
Michael Ross Anthony
Harleen Atwal
Troy Blaser
Jesse Haywood Creech
Jeremy Allen Davis
Cory William Dawson
Kasey Milton Eljoundi
Frank Floyd Hundley
Katelyn Barbara Kerns \textit{summa cum laude}
Peter Joseph Lawson
Racheal Marie Lenig
Brenan Lee Martinez
Christopher David Mendenhall \textit{cum laude}
Robert John Millar
Jean-Paul Muyshondt
Kinesh B. Padia
Justin Robert Poliachik \textit{magna cum laude}
Dana Marie Pruitt
Andrew Lawrence Robie \textit{cum laude}
Benjamin James Singer
Cannon Drew Smith
Jordan Thomas Smith
Kevin Edward Smith
Grayson Tyler Spease
Billy James Stroud
Erik M Willis, \textit{cum laude}

And our first graduate with a B.S. in Information Technology:
William Wells Loveland
Alumni and Friends:

Name: ____________________________________________
Dr./Mr./Mrs./Ms. First Middle Maiden Last Suffix

Home Address: ______________________________________
Street/PO Box City State ZIP + 4

Home Phone: ____________________ Cell Phone: __________ Work Phone: __________

Email ________________________________

Graduation date: ______________ Degree/Major: __________________________

Employer: __________________________ Position: ________________

Business Address: __________________________________________________________

Spouse: ____________________________________________
Dr./Mr./Mrs./Ms. First Middle Maiden Last Suffix

Spouse’s Employer: ______________ Position __________________________

Matching Gift Company? Yes/No

Visit our secure online giving site: http://www.uncw.edu/giveonline to make a gift to the Computer Science Department Trust Fund.

Enclosed is my gift of $__________ for the Computer Science Department Trust Fund (make checks payable to UNCW) or
charge my ___Visa or ___Mastercard or ___American Express
Number: ___________________________ Expiration Date (mm/yyyy) _____ 3-digit Security Code______

Name as appears on card: ____________________________________________________________

Signature: ________________________________________________

Return to: Advancement Services, University of North Carolina Wilmington, 601 South College Road, Wilmington NC 28403-5905

This gift qualifies as a charitable donation. THANK YOU for your consideration and generosity!

Visit us on the Web:

www.uncw.edu/csc

Also look for the UNCW computer science group on Facebook and on LinkedIn!

Calling All Alumni

As a valued member of the Seahawk family, we want to learn more about the areas of the university that are most important to you. Our goal is to be able to provide you with information, news and events pertaining to your areas of special interest.

Please take a moment to review your contact information and make any necessary changes by visiting, www.uncw.edu/alumniupdate.

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