

ELEMENTS

The Citadel

School of Science and Mathematics Newsletter

Vol. 1, No. 1 Fall 2008

DEAN'S MESSAGE



Dear Friends of the School of Science and Mathematics:

Welcome to *Elements*, the inaugural edition of The Citadel School of Science and Mathematics newsletter. We hope that it will inform you about, and interest you in, the activities of the School of Science and Mathematics as we strive to further the School's mission to: *Prepare students to become well-informed, effective and principled leaders in a world that is increasingly needful of scientific modes of thought.*

The past year has seen a number of developments in our fledgling school: the establishment of the Citadel Science and Mathematics Council (CSMC); the initial ABET accreditation review of the undergraduate computer science program; the launching of an annual SoSM Distinguished Alumnus Award; the founding of a WISE (Women in Science and Engineering) chapter on campus; the hosting of the Southeast meeting of the Mathematical Association of America that brought more than 400 participants from five states to The Citadel; the establishment of an inter-school STEM (Science, Technology, Engineering and Mathematics) initiative in cooperation with the Schools of Education and Engineering; and other initiatives and personal accomplishments of our faculty and students. You will find more information on some of these activities and events in this newsletter.

We continued building the future of the School with the hiring of six new full-time faculty members for the 2008-09 academic year. Joining us on the full-time faculty are Ron Hemingway (Ph.D., Clemson University) and Paul Simone (Ph.D., University of Memphis) in Chemistry; Tim Bott (Ph.D., University of South Carolina), Wes Dudgeon (Ph.D., University of South Carolina) and Linda Schoonmaker (Ph.D., Ohio State

University) in Health, Exercise and Sport Science, and Scott Yost (Ph.D., Princeton University) in Physics.

Our faculty continues distinguish itself in teaching, scholarship and service. They are very active in integrating undergraduates into their research programs and involving students in the scientific enterprise and community service. We in SoSM are acutely aware of our responsibility to help mold a citizenry and workforce that is ready to meet the challenges of a new century. With your help we can achieve and sustain excellence in the education of the next generation of scientists, engineers, teachers and leaders in government, industry and the professions.

Chuck Groetsch, Dean

Distinguished Alumnus Award



Dr. Harry Y. McSween

The Citadel School of Science and mathematics inaugurated its Distinguished Alumnus Award on March 14, 2008 with the presentation of the first award to Harry Y. “Hap” McSween, a '67 Chemistry graduate and former Executive Officer of Band Company. Hap earned his M.S. degree in Geology from the University of Georgia and his Ph.D. in Geology from Harvard University. Currently he is University Distinguished Professor of Science and Professor of Planetary Science at the University of Tennessee.

Hap McSween is a world leading authority on cosmochemistry - the chemistry of meteorites. He was one of the original proponents of the now accepted idea, that some meteorites are samples of Mars, and he has been a NASA Co-investigator on numerous spacecraft missions to explore the red planet. His research has led to revolutionary ideas about the geologic and geochemical evolution of Mars. He has also done groundbreaking work on elucidating the early history of the solar system through studies of primitive chondritic meteorites and by spacecraft investigation of asteroids from which they come.

In 2001 McSween was awarded the Leonard Medal of the Meteoritical Society in recognition of his outstanding contributions to the science of meteoritics. He has also been awarded the Leconte Medal from the South Carolina Science Council and he recently received the high honor of election as a Fellow of the American Geophysical Union. His election as a

Fellow was, according to the A.G.U. citation, "For leadership in the study of primitive meteorites and their interpretation in terms of processes in planetary bodies and in the study of Martian igneous rocks, and for contributions to our understanding of the early history and evolution of the solar system and geologic processes on Mars." He is also a Fellow of the American Academy of Arts and Sciences, and has served as Chair of the Planetary Division of the Geological Society of America, President of the Meteoritical Society, and member of several advisory committees for NASA and the National Research Council.

A prodigiously prolific author, Hap has published hundreds of frequently cited papers in leading scientific journals. He also has a deep commitment to interpreting the latest findings in planetary science to the general public. His four popular books on planetary science are models of exposition that convey important science in an engaging way while inviting the reader to take part in the joy and wonder that is at the heart of science.

In his remarks on receiving the award Hap offered the following insight on his Citadel experience: "I suspect that lessons learned at The Citadel have made me a better scientist - certainly a more disciplined one - and perhaps a more confident warrior in the contests of science."

The Citadel Undergraduate Research Conference

Dr. Danny Gustafson of the Biology Department organized, with support from Dr. Sam Hines, Provost and Dean of the College, the 2008 Undergraduate Research Conference on March 14-16 in Daniel Library. Twenty nine research projects, comprising the work of fifty three undergraduates and the advice of numerous faculty mentors, representing all disciplines in the School of Science and Mathematics, and in psychology, were showcased at the conference.

The Citadel Undergraduate Research Conference top prize went to Brent D. McCarragher for his research project titled, 'Developmental characterization of *Xenopus laevis* photoreceptor cells.' Second place was captured by Ariel Bowen, Scott Caffey, Coty Garnett, Griffin Greene, Chase McRae, Tom Morin, Brendan Nolan, and Tyler Shealy for their research titled, 'The effect of a mouthpiece on muscular strength and endurance.' Michael P. Horger, Jr.'s project, 'Ornamental Coloration in Wood Ducks (*Aix Sponsa*) as an Indicator of Health Condition' earned the third place award.

This year the Sigma Xi Scientific Research Society initiated two prizes for research in the fields of science and mathematics. The two winners of this award were Logan P. Daigle for his project titled, 'Implementing Floor Control Protocols for Collaborative Applications on the PlanetLab Network' and Jui-Chiang (Jacky) Chen for his research titled, 'Continued Fractions in Finite Fields.'

Congratulations to all the participants (student researchers, faculty mentors, and organizers) in this year's conference. The high quality of research conducted at The Citadel in our undergraduate programs, as evidenced by the many fine projects, reflects very well the quality of the students, faculty, and programs in the School of Science and Mathematics.

The CSMC

The *Citadel Science and Mathematics Council* (CSMC) is a newly formed group of highly accomplished professionals, appointed by the President of The Citadel, who are committed to advancing the programs of the School of Science and Mathematics. Dr. Marc Settin, of Charlotte, NC, chairs the CSMC. The members of the CSMC will provide strategic and programmatic advice, facilitate connections with important external constituencies, and support development in the School of Science and Mathematics. The inaugural meeting of the Council was held in March, 2008; twice yearly meetings will be held in the fall and the spring.

Charter members of the CSMC include:

Virgil (Dan) Alfaro, M.D., ('84, Biology), a prominent Mount Pleasant physician;

Catherine DeMers ('04, Mathematics, CGC), Mathematics Coordinator for Berkeley County Schools;

Lee Dewald, Ph.D. ('69, Mathematics), head of the Department of Mathematics and Computer Science at VMI;

Shawna Hartman ('05, Mathematics), an executive with CINTAS Corporation;

Samuel McManus, Ph.D. ('60, Chemistry), an eminent research chemist, consultant to the chemical industry, and a retired Provost of the University of Alabama in Huntsville;

William Sanders, Principal Engineer of Scientific Research Corporation (a leading edge defense and global security technology company);

Marc Settin, Ph.D. ('80, Chemistry), CEO of Barker Industries, a chemical company in Charlotte, NC;

Christopher Shaffrey, M.D. ('82, Biology), Director of the Neurosurgery Spine Division, University of Virginia College of Medicine.

John Smyth, Ph.D., retired Director of Training Centers for the U.S. Olympic Committee and an internationally recognized expert on exercise and sport science;

George Stevens, Ph.D., Director of the Coastal Community Foundation of South Carolina;

Allen Wutzdorff, Executive Director of The Education Foundation, a unit of the Charleston Metro Chamber of Commerce;

Ex-Officio: Bill Yaeger ('83, Business), Director of Major Gifts, The Citadel Foundation.

NEWS FROM THE DEPARTMENTS

Biology

Cadet Research in the Department of Biology

Cadet Biology majors continue to excel in faculty-mentored research. This year a Biology major again took first place in The Citadel Undergraduate Research Conference. Brent McCarragher ('08) presented the results of his study, "Developmental Characterization of *Xenopus laevis* Photoreceptor Cells" that he performed under the mentorship of Dr. Alix Darden. Michael Horger ('08), working with Dr. Paul Nolan, won third prize for his work on "Ornamental color in drake wood ducks (*Aix sponsa*) as an indicator of health condition". Congratulations to these recent graduates!

Several cadets have also recently presented the results of their research at scientific meetings. Holly Maslowski ('09) presented the work that she did with Dr. Paul Nolan on "Feather plumes may be sexually selected in Rockhopper penguins, *Eudyptes chrysocome*" at the International Society for Behavioral Ecology meeting held at Cornell University. Two of Dr. Danny Gustafson's students presented their research at the Association of Southeastern Biologists meeting in Spartanburg, SC. Anthony Giunta ('08) presented a talk on "Evaluating spatial genetic structure of an endangered dioecious shrub (*Lindera melissifolia*) in South and North Carolina", and Heather Chandler ('08) presented a poster on her project "The impact of laurel wilt disease on coastal forests in South Carolina".

New Faculty in the Department of Biology

The last several years have seen quite a few changes in the Biology faculty. If you graduated prior to 2002 you might not recognize many faces in Duckett Hall today. Although we miss the many valued faculty who have recently retired, we have brought in great successors and the Department is thriving. Among those joining the Biology Department are: Dr. Joel Gramling (plant taxonomy), Dr. Danny Gustafson (plant ecology), Dr. Kristy Johnson (microbiology), Dr. Paul Nolan (ornithology), Dr. Paul Rosenblum (animal physiology), Dr. Kathy Zanin (developmental and cell biology), and Dr. John Zardus (invertebrate zoology).



Dr. Alix Darden, Cadet Brent McCarragher, Cadet Michael Horger, Jr., Dr. David Trautman, Dr. Lee Dewald (CSMC)

Chemistry

The Department of Chemistry has had an active year. Three papers by department members were presented at the National Meeting of the American Chemical Society, there has been a temporary change in Department Head, and two open analytical chemistry positions were successfully filled out with the hiring of Dr Ron Hemingway and Dr Paul Simone.

Dr Hemingway received his Ph.D. from the University of Texas in the area of electroanalytical chemistry. He went on to have a successful career at DuPont where he held many leadership positions both in Europe and North America. After retiring from DuPont he came back to Charleston where he taught as an adjunct faculty member at The Citadel. His area of research involves investigating how reactions proceed on small surfaces. Ron will be teaching upper level courses in analytical chemistry and he will be a part of the freshman chemistry program.

Dr Paul Simone received his Ph.D. from the University of Memphis in analytical chemistry. His research will involve developing techniques to conveniently detect and analyze disinfectant by-products in drinking water. Paul will be teaching upper level courses in analytical chemistry and participating in the freshman chemistry program.

Dr Randy Blanton has assumed the Department Head role this year due to a temporary leave of absence by Dr Lisa Zuraw. Dr Blanton was the Department Head for 14 years prior to the beginning of Dr Zuraw's tenure in the position.

Three papers from The Citadel were accepted and presented last spring at the National Meeting of the American Chemical Society held in New Orleans. A paper entitled "Adsorption and Decomposition of Sarin and DMMP on Zinc Oxide Surfaces" authored by Dr Michael J. Dorko and Cadet Jonathan P. Olson was presented in the Physical Chemistry Section of the Undergraduate Research Poster session. Cadet Olson made the presentation.

Dr. Holly M. Bevsek and Cadet Pao-Shun Ting authored a paper entitled "Study of the Reaction of NO₂ with Purified Multi-Walled Carbon Nanotubes" which was presented in the Nanotechnology Section of the Undergraduate Research Poster session. Cadet Ting made the presentation.

A paper entitled "Adsorption Using the Microenvironment of Crosslinked Polymers to Enhance Asymmetric Reductions of Prochiral Ketones" authored by Dr Randy Blanton and Cadet David Poston was presented in the Asymmetric Chemistry section of the general Organic Chemistry. Cadet Poston made the presentation.



Cadet Katherine Hardina, Cadet Joseph Collins,
Cadet Robert Clark, Cadet Pao Shun Ting
Cadet Shen-wei Yu, Dr. Lisa Zuraw
(See Undergraduate Awards)



Dr. Mike Dorko, Dr. Holly Bevsek, Dr. Lisa Zuraw,
Dr. Suzanne Mabrouk, Dr. Randy Blanton

Health Education and Sports Science

**DEPARTMENT OF HEALTH, EXERCISE, & SPORT SCIENCE STUDENT AWARD
WINNERS, 2007-2008 AY**

Eight cadets from the Department of HESS were awarded Second Place at The Citadel Undergraduate Research Conference held 14-16 March 2008. These students were Ariel Bowen, Scott Caffey, Cody Garnett, Griffen Greene, Chase McRae, Tom Morin, Brendan Nolan, and Tyler Shealy. The title of their project was “The Effect of a Mouthpiece on Muscular Strength and Endurance”, and their project was supervised by Dr. Dena Garner.

Two graduating seniors in the Department of HESS were recognized as “Outstanding Majors of the Year” by the National Association for Sport and Physical Education. Montrell Lee from Snow Hill, NC was selected by the HESS faculty as the outstanding student in physical education, while Jayson Zeigler of Sumter, SC was selected as our outstanding major in health and wellness.

This year’s recipient of the Keith Hamilton Award for outstanding academic achievement and potential for future professional growth was Jayson Zeigler, a graduating health and wellness senior from Sumter, SC.

HESS MAJORS CLUB OFFICERS 2008-2009 AY

These student officers who will lead the Health, Exercise, & Sport Science Majors Club during the 2008-2009 academic year were chosen by their peers in spring 2008 elections.

- President-Harrison Plunkett, a senior from Atlanta, GA is a health & wellness major
- Vice-President-Tate Blenke, a junior from Suwanee, GA is a sport management major
- Secretary-Rachelle Ornelas, a junior from Palm Harbor, FL is majoring in health & wellness
- Treasurer-Steven Urgelles, a junior physical education teaching major is from Sugarland, TX
- Senior Representative-Jordan Doshier, a senior from Pelzer, SC is majoring in health & wellness
- Junior Representative-Nikki Mares, a junior from Lake Tahoe, NV is majoring in health & wellness
- Our three ex-officio members are Landon Amick, senior health & wellness major from Leesville, SC; Danielle DiFiore, a junior physical education teaching major from Calfion, NJ; and Matt Holt, a senior physical education teaching major from Sunset Beach, NC.

THE CITADEL HEALTH & WELLNESS FAIR 2008

All cadets were invited to attend the 2008 edition of The Citadel Health & Wellness Fair held at the Deas Hall main gymnasium on Wednesday and Thursday 20-21 February from 8a.m-4p.m.

This year's event was co-sponsored by The Citadel's Department of Health, Exercise, & Sport Science, The Citadel Counseling Center, and The Citadel Infirmary. The primary purpose of the Fair is to provide cadets an opportunity to increase their health, physical fitness, and wellness knowledge in order to make better decisions to enable healthier living. In addition to health screenings, approximately 1,000 cadets, along with several faculty and staff members, interacted with and asked questions of health and exercise professionals, as well as participated in fun competitions for valuable prizes.

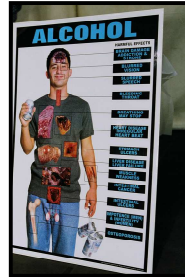


Gait Analysis

Smoking Hazards



Alcohol



Breast Cancer Study

Last spring a breast cancer study was conducted in the Dept of HESS by graduate student Ashley Green (Biology). This study dealt with breast cancer survivors and the effect of a nutritional and exercise intervention on such physiological parameters as body fat and maximal oxygen consumption. A follow up study will begin in September to measure participant adherence to the diet and exercise intervention.

Bite Tech Research

Research is being conducted by Dena Garner (HESS faculty) and Erica McDivitt (recent graduate student HESS) to understand the physiological effects of wearing a mouthpiece. They are currently testing cortisol and lactate changes with and without the use of mouthpiece (The Edge, Bite Tech Corp) during both anaerobic and aerobic exercise. Their research was presented at the American College of Sports Medicine Conference in May, 2008 and at the Academy of Sports Dentistry Conference in June, 2008.

The HESS Department Welcomes Three New Professors

Dr. Tim Bott - P.E. / Pedagogy

Dr. Bott received his B.A. in Psychology, M.S. in Physical Education, and Ph.D. in Pedagogy from The University of South Carolina. From 2006–2008, Dr. Bott was an Assistant Professor in the PETE Program at Bowling Green State University in Bowling Green, Ohio. During his time in South Carolina, Dr. Bott taught in the Lexington District 1 schools from 1997-2000. Tim and his family will be residing in Mount Pleasant, SC.

Dr. Wes Dudgeon – Exercise Physiology

Dr. Dudgeon received his B.S. in Sports Science from Malone College in Canton, Ohio, and Ph.D. in Exercise Science from the University of South Carolina. From 2006–2008, Dr. Dudgeon was a Visiting Professor in the Physical Education and Health Department at The College of Charleston. Wes and his wife reside in Charleston, SC.

Dr. Linda Schoonmaker – Sport Management

Dr. Schoonmaker received her B.S. in Physical Education with Teacher Certification and M.S. in Physical Education from State University of New York at Brockport. She received her Ph.D. in Sport Management/Higher Education Administration from The Ohio State University. From 2006–2008, Dr. Schoonmaker was an Associate Professor and Director of the Sport & Recreation Management Program at St. Andrews Presbyterian College in Laurinburg, NC. Linda resides on James Island, SC.



Cadet Montrell Lee and Dr. John Smyth (CSMC) at Awards Dinner

Mathematics and Computer Science

MACS Hosts Annual MAASE Meeting

The Citadel's Department of Mathematics and Computer Science hosted the 87th Annual Meeting of the Southeastern Section of the Mathematical Association of America (MAA-SE). 457 mathematicians, college professors, high school teachers and college students from Alabama, Georgia, North Carolina, South Carolina, and Tennessee participated in the conference.

The conference opened with welcoming remarks given by Dr. Sam Hines, Provost of The Citadel, and went smoothly with 3 invited lectures, 23 paper sessions (125 papers in all) presented by students and faculty, 4 short courses, and a session of 29 student posters. There were also several student activities including a Math Jeopardy Competition

participated in by 16 teams of college students from the southeastern section. The Citadel team was formed by Jui-Chiang (“Jacky”) Chen (BS in Mathematics, 2008), Chris Hall (BS in Mathematics, 2009) and Tso-Jun Meng (BS in Mathematics, 2010). One of the conference highlights was the conference dinner held at the Citadel Beach House on Friday, featuring Dr. Chuck Groetsch, Dean of the School of Science and Mathematics, as the dinner speaker. Chuck also presented a technical talk titled “Matter gravitates, but does gravity matter?” at the meeting.

Eleven faculty members and six students from The Citadel participated in the conference. Among them, four were presenters and six were session chairs. The conference local organizing committee was formed by Dr. Shankar Banik, Dr. Mei Chen (Local Arrangements Chair), Dr. Margaret Francel, Dr. John Moore, and Dr. Dave Trautman.

Detailed conference information can be found at the conference website, http://macs.citadel.edu/chenm/MAA-SE/webpage_08.htm.



The Citadel Math Jeopardy Team



MAA Meeting: Beach House Dinner

ABET Accredits the CS Program

The B.S. in Computer Science program has been accredited by the ABET Computing Accreditation Commission. ABET is the recognized accreditor of college and university programs in applied science, computing, engineering, and technology. ABET accreditation demonstrates a program's commitment to providing its students with a quality education. This was the initial accreditation for the program, but the accreditation action extends retroactively from October 1, 2006, so that students who graduated after that date are considered to have graduated under an accredited program.

Accreditation is a voluntary, peer-review process that requires programs to undergo comprehensive, periodic evaluations. The evaluations, conducted by teams of volunteer professionals working in industry, government, academe, and private practice within the ABET disciplines, focus on program curricula, faculty, facilities, institutional support, and other important areas.

MACS Cadets Take Sigma Xi Awards

Logan Patrick Daigle (BS in Computer Science, 2008) was inducted as an associate member of Sigma Xi, the Scientific Research Honor Society, at the annual Sigma Xi initiation ceremony and banquet. Logan Daigle and Jui-Chiang (“Jacky”) Chen (BS in Mathematics, 2008) were recipients of the Sigma Xi Best Poster Award for their poster presentations given at the Citadel Undergraduate Research Conference. Dr. Shankar Banik advised Cadet Daigle on his project, *Implementing Floor Control Protocols for Collaborative Applications on the PlanetLab Network*, and Dr. Spencer Hurd mentored Cadet Chen’s project, *Continued fractions in finite fields*. Dean Groetsch and MACS faculty members Dr. Dave Trautman, Dr. Margaret Francel, and Dr. Mei Chen also attended the ceremony.



Cadet Logan Daigle



Cadet Jacky Chen

Jacky Chen - First Honor Graduate

Jui-Chiang (“Jacky”) Chen (BS in Mathematics, 2008) was recognized as the First Honor Graduate of the class of 2008 at Commencement. Cadet Jui-Chiang (“Jacky”) Chen is a mathematics major from Xindien (City), Taipei (County) Taiwan. While at The Citadel Jacky served as president of Math Club for three years, and he worked as a mathematics tutor for the Writing and Learning Center for two years. His honors include election to Phi Kappa Phi and Sigma Xi honor societies, Who’s Who in American Colleges and Universities, a Phi Beta Kappa Scholarship, George E. Reves Award for Superior Ability and Outstanding Achievement in Mathematics and Gold Stars every semester. After graduation Chen was commissioned in the Taiwanese Air Force.

Physics

The Department is pleased to announce the addition of a new tenure-track faculty member. Capt. Scott A. Yost is a native of Pennsylvania. Scott attended Carnegie-Mellon University where he earned Bachelor of Science degrees in both Physics and Mathematics. His Ph.D. was obtained from Princeton University in the area of Elementary Particle Physics. Scott held a post doctoral position at the University of Florida and research and teaching positions at the University of Tennessee and Baylor University. He comes to The Citadel from Princeton University where he participated in an innovative project for teaching introductory physics. Dr. Yost is an active researcher in Elementary Particle Phenomenology, in which the *Standard Model* is used to determine the likely output from particle accelerators, including the Large Hadron Collider, which is scheduled to come online in Switzerland in September ‘08. Scott is an accomplished mountain climber having ascended past the 20,000 foot mark. He joins Professors Adelman, Berlinghieri, Briggs, Hilleke, Hurka, and Rembiesa and Adjunct

Professors Gomez and Kanagy in the Department of Physics, which enrolls approximately thirty students seeking Bachelor of Science degrees in Physics, and provides instructional service in introductory physics courses to more than 300 students who are majoring in other subjects.



Dr. Russell Hilleke, Angela Ellenwood, Michael Rowland, Stephanie Woodrow, Dr. Patrick Briggs, Dr. Joel Berlinghieri, Brennin Colegrove, Jason Sutton, Phillip Westbrook, Thomas Gade, Navy OC Joshua Bergeron, Prof. Rene Hurka

2008 Student Academic Awards in SoSM

Thomas Francis McGarey Award for outstanding achievement in the field of natural science.

Michael Horger, Biology
Brennin Colegrove, Physics.

Dr. Francis Eugene Zemp Award for the highest scholastic rating for a graduating senior continuing on to medical school.

Brent McCarragher

Biology

Outstanding Freshman Award

Arthur Buist Jordan, V

Outstanding Sophomore Award

Jaroslav Vorac

Outstanding Junior Award

Michael Raymond Pierce

Outstanding Senior Award
Michael Pinckney Horger, Jr.

Chemistry

Outstanding Freshman Award
Katherine Rae Hardina
Outstanding Sophomore Award
Joseph Coons Collins
Outstanding Junior Award
Robert Wayne Clark
Outstanding Senior Award
Pao Shun Ting

Undergraduate Award in Analytical Chemistry
Shen-wei Yu

Health Education and Sport Science

NASPE

The National Association for Sport and Physical Education (NASPE) Outstanding Major
of the Year Program.
Montrell Lee
Jayson Zeigler

The Keith Hamilton Award - Senior HESS Major best demonstrating outstanding
academic achievement and potential for future professional growth.
Jayson Zeigler

Mathematics and Computer Science

George E. Reves Award- For Superior Ability and Outstanding Achievements in
Mathematics and Computer Science.

Jui-Chiang Chen
Logan Daigle
Franco Villongco

Physics

Outstanding Freshman Award.
Joshua Bergeron and Michael Rowland

Outstanding Sophomore Award

Phillip Westbrook

Outstanding Junior Award

Thomas Gade

Outstanding Senior Award

Brennin Colegrove

Angela Ellenwood Award - in honor of The Citadel's first female Physics Major, for outstanding achievement by a female Physics Major or Applied Physics Minor.

Stephanie Woodrow

Teaching Assistant Award - for excellence as student teaching assistant or physics tutor.

Jason Sutton

National Physics Honor Society $\sigma\pi\sigma$ - for Junior or Senior Physics Majors or Applied Physics Minors displaying an outstanding academic record in physics.

Thomas Gade

Brennin Colegrove

Corey Caswell

MGEN Wallace E. Anderson Scholarship - for recognition of high academic achievement by a Physics Major

Brennin Colegrove and Thomas Gade

2008 Graduates of the School of Science and Mathematics

The Citadel Corp of Cadets

December 2007

BIOLOGY

Gonzalez, Paulo

McCarragher, Brent Daniel

Mathematics and Computer Science

Villongco, Franco Luis

Health Education and Sports Science

Hutchins, Chad Robert

Chambers, Melanie S.

Parada, Patrick Samuel

Shaw, Justin Marion

May 2008

BIOLOGY

Brown, Ryan Scott

Chandler, Heather Judith

Deptula, Sarah Rachel Victoria

Dillihay, Elliot Clarkson

Eason, James Robert

Giunta, Anthony Philip, Jr.

Gomez, Herbert Anthony, III

Horger, Michael Pinckney, Jr.

Jentzen, Noah Jeffrey

Kelly, Aaron Jerome, Jr.

McDowell, Christopher Michael

Montes, Jonathan Robert

Prudhomme, Ian Alexander

Short, Matthew Keith

Chemistry

Olson, Jonathan Phillip
Poston, David Alan
Ting, Pao-Shun

Caswell, Corey Richard
Miller, Joseph William
Sutton, Jason Michael

Mathematics and Computer Science

Daigle, Logan Patrick CS
Gilbert, William Bryan, IV CS
Hermann, David Jonathan CS
Loos, Clifford Tyler CS
Manekhat, Phakdee CS
Alger, David Phillip MATH
Chen, Jui-Chiang MATH
Desso, Nathan Hoyt MATH
Lewis, Kristopher Robert MATH
Rimes, Nicholas Page MATH

Citadel Graduate College
Graduate degrees

2007-2008

BIOLOGY

Donohue, Jon Michael MA 2008
Norris, Jillian Nichole MA 2008
Robinson, Angela Renee MA 2008
Thackston, Leigh Anne MA 2007
VanSickle, Kaitlin Emily MA2008
Wigal, Mark N. MA2007
Williams, Steven Matthew MA 2008

Health Education and Sports Science

Broughton, Trevar Armon
Bryan, Margaret Lucita
Cappelmann, Alma Devereaux
Carter, Clayton Edward
Cooper, Tory Ryan
Dicks, Corey Alexander
Green, Daniel Ryan
Harvill, Joseph Henry
Hess, Harold Allen
Rooney, Peter Patrick
Spado, Matthew Anthony
Zeigler, Jayson Walter Vance
Fretwell, Jeffrey Alexander
Giustizia, Raymond Richard, IV
Haight, Matthew Thomas
Stern, Daniel Hunter
Taylor, Lora Allison
Mogelgaard, Hans Jensen

Health Education and Sports Science
Hesse, Erin Louise MS 2008
King, Brandon Scott MS 2008

Computer Science

Dion, Thomas Walker MS 2007
Fabijanic, Aleksandar MS 2007
Heh, Jonathan Paul MS 2007

PHYSICS

Alumni Corner: Let Us Hear From You

(A response by click)

Giving to The Citadel School of Science and Mathematics

Donors often want to know how they might designate a gift to the School of Science and Mathematics or to one of its departments. It is The Citadel's policy that any such gifts restricted to the School of Science and Mathematics must be made through the authorized fund-raising organization for the College – The Citadel Foundation.

Gifts, made payable to The Citadel Foundation, may be mailed to TCF at 171 Moultrie St., Charleston, SC 29409, with a clear written notation that the gift is to be specifically allocated to the School of Science and Mathematics (or to any other Citadel unit of the donor's choosing). You can also give online at www.citadel.edu/tcf. Any questions about giving may be directed to the Foundation at 843-953-5297.

Funding for laboratory equipment, for support of student activities and faculty scholarship, and for other initiatives to advance the School of Science and Mathematics is always in short supply. Therefore unrestricted gifts are particularly appreciated. Of course, gifts designated for a specific purpose are also welcomed. However you choose to give your support to the School of Science and Mathematics, you can be assured that your gift will be used in the most effective manner to provide the best education possible to our students.