Student learns about life in Antarctica

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While the rest of Georgia Tech has been in the throes of basketball fever, mechanical engineering sophomore Bradford Range has been breaking the ice with researchers in Antarctica. Range has spent the past eight months working on various research teams as part of the Antarctic Scout program, a joint venture between the Boy Scouts of America and the National Science Foundation. His last venture before he returns home in May is a voyage on an ice breaker conducting a sonar profile of the continental shelf.

"It's opened my eyes that there are many more opportunities to get out and see the world and use the engineering skills I've developed as a gateway to do that," he said during one of several interviews over the course of his stay.

Every few years, the Boy Scouts of America chooses an Eagle Scout to assist researchers in science and engineering projects across the continent. Range is the 11th scout and the second Georgia Tech student to take the trip.

While on the frozen continent, he has studied stratospheric ozone levels, fish that live in sub-zero waters and glacial ablation among other things. One of his more recent expeditions has been taking part in an aerial survey of the Transantarctic Mountains to test a theory that east Antarctica once abutted North America.

One of his favorite research projects involved studying the physiology of Emperor penguins. The penguins can dive up to 500 meters, a depth that would collapse the lungs of most land-dwelling creatures. Range and the researchers attached instruments to the backs of the penguins and monitored their movements to figure out how they can survive such extreme conditions.

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Breaking ground on ‘a place for solutions’

Special effects and virtual models of the Georgia Tech campus were part of the College of Computing’s recent “virtual groundbreaking.” Chris Klaus, the building’s namesake and benefactor, wears a head-mounted display set while putting the newly constructed Advanced Computing Building in place. At right, he stands with Tom Noonan, alumnus and chief executive officer of Internet Security Systems, the company Klaus founded in 1994.

The 414,000-square-foot facility will include underground parking for 500 cars, and preserves nearly 50 percent of the site for green space. Construction plans also call for a number of sustainable initiatives, such as stormwater collection and energy conservation.

Running for a cure

Teams of volunteers camped out at Stamps Field on April 3, taking turns running in the Relay for Life, a charity event for cancer research. David Prophitt, who directs the Mobilizing Opportunities for Volunteer Experience (MOVE) Office, exceeded the event, which raised $95,000 for the American Cancer Society.
When the Whistle Blows

A remembrance ceremony

He’s also putting his engineering skills to good use, helping a team build an 800-mile road from McMurdo Station to the South Pole. “We used ground penetrating radar to discern the depth of snow layers and detect crevices so big a tractor could disappear into them,” he said.

The sub-freezing temperatures have meant Range has had to make a lot of adjustments. “On days when I’m out in the field, I have to eat an enormous amount. You have to eat well,” he said, “because you’ve got to sustain yourself in an environment where you can’t get into a warm area quickly.”

The coldest temperature he’s endured was minus 42 degrees Fahrenheit with a wind chill of minus 87. He wore six layers of clothes and still got frostbitten.

He also experienced a white out, where he couldn’t tell which way was up or down. “I was out at a fish hut in the middle of the Ross Ice Shelf. It was so thick I put my hand all the way in front of me and I couldn’t see it,” he said.

But for the most part, Range said, he’s taking the cold temperatures in stride. “I’m getting tolerant to it. I can wear a t-shirt outside, even though it hasn’t been above freezing,” he said.

Eager to share his experience, Range has kept in contact with several elementary school classrooms, answering questions about everything from his research to his love life. “I have a collection of Flat Stanleys to take pictures of at the South Pole,” he said, referring to the children’s book character kids send in envelopes to exotic places.

One of the many research projects Range is involved in concerns the physiology of penguins. Here he assists a diver in New Harbor, Antarctica.

The trip has been the opportunity of a lifetime, said Range. “It’s been a life changing experience, this place. It has a beauty all of its own that’s impossible to describe to someone who hasn’t been there. I would come back in a heartbeat.”
Last week’s Faculty/Staff Honors Luncheon offered an opportunity to recognize not only those award winners listed below, but also the 186 members of the Tech community who marked their 10-year anniversary, and another 75 who reached the 25-year plateau.

The Whistle extends its congratulations to the honorees.

**2004 Staff Tuition Remittance Assistance Program (STRAP) Graduates**
- Keith Jordan, Undergraduate Admission
- Earl Babbitt, Civil and Environmental Engineering
- Robert Rose, Microelectronics Research Center

**Don Bently Human Relations Award**
- Billiee Pendleton-Parker, assistant director, Center for the Enhancement of Teaching and Learning

**Administrative Service Award**
- Sonny Monfort, project director, Information Technology

**Georgia Tech Chapter Sigma Xi Awards**
- **Young Faculty Awards**
  - Andrei Fedorov, assistant professor, Mechanical Engineering
  - Tim Lieuwen, assistant professor, Aerospace Engineering
- **Outstanding Best Paper Award**
  - Cheng Zhu, professor, Biomedical and Mechanical Engineering
- **Sustained Research Award**
  - Min Zhou, associate professor, Mechanical Engineering

**Faculty Awards**
- **Outstanding Doctoral Thesis Advisor**
  - Arthuri Fisk, professor, Psychology
- **Outstanding Achievement in Research Program Development**
  - Uzi Landman, Regents’ Professor, Physics
  - C. J. Summers, professor, Materials Science and Engineering
- **Outstanding Faculty Research Author**
  - Jai P. Akylidz, professor, Electrical and Computer Engineering
- **Outstanding Faculty Leadership for the Development of Graduate Research Assistants**
  - Dimitri Mavris, associate professor, Aerospace Engineering
- **ANNAK Award**
  - Richard Barke, associate dean, Ivan Allen College

**The E. Roe Stamps Excellence in Teaching Awards**
- **Senior Faculty Award**
  - Bethina Coffran, professor, Modern Languages
- **Junior Faculty Awards**
  - Sylvia Mazer, assistant professor, International Affairs
  - William Winders, assistant professor, History, Technology, and Society

**Academic Advisor Awards**
- **Outstanding Undergraduate Research Mentor (Faculty) Awards**
  - Gary May, professor, Electrical and Computer Engineering
  - Mary Lynn Keil, associate professor, Polymer, Textile, and Fiber Engineering
- **Outstanding Academic Advisor Award — Staff Advisor**
  - Jennifer Gillespie, academic assistant, Computing

**Faculty Honors Committee Awards**
- **W. Roane Beard Outstanding Teaching Award**
  - Deborah Turner, associate professor, Management
- **W. Howard Ector Outstanding Teaching Award**
  - Richard Catrambone, associate professor, Psychology
- **Outstanding Service Award**
  - Jorge Vanegas, associate professor, Civil and Environmental Engineering
- **Outstanding Innovative Use of Education Technology Award**
  - Joel Jackson, assistant professor, Electrical and Computer Engineering

**Community Outreach and Books for Africa**

For the second time this academic year, Georgia Tech will be partnering with Campus Community Outreach and Books for Africa to donate no-value textbooks to help promote education and literacy in Africa. Old books are being thrown away or turned into pulp, donating books benefits Third World countries, where the ratio of students to books is seven to one. Bins will be placed at convenient locations around campus for students, faculty and staff to deposit unwanted books during the week of April 26-30. A complete listing of locations is available at www.move.gatech.edu.

MOVE first started the Books for Africa drive at Georgia Tech in fall 2003 and collected more than 400 books in its inaugural campaign. For more information, refer to www.booksforafrica.org, or e-mail Jennifer Wu at jwu445a@mail.gatech.edu.

A summer camp where the bugs don’t bite

Emagination Computer Camps is opening its newest camp at Georgia Tech in June. Children aged 8-17 choose from more than 25 workshops in topics such as video game design, web design, 3D animation, digital photography, programming languages and how to build a computer. Swimming and sports programs will be held in the Campus Recreation Center, and workshops will take place on campus.

The camp runs both day and overnight programs and is offering a $200 discount to children of Georgia Tech faculty and employees. Emagination has operated computer camps since 1982 and has additional locations in Massachusetts and Illinois.

More information is available at www.computercamps.com or 888-226-6735.
C A M P U S E V E N T S

Arts & Culture

Apr. 16
The Ferst Center for the Arts welcomes Mark O’Connor’s Hot Swing Trio with Jane Monheit at 8 p.m. Faculty and staff receive a 10 percent discount. For tickets, call 894-9600.

Apr. 16
The Ferst Center for the Arts welcomes author Bill York, who will be signing copies of his latest work, “The Valley of Silent Drums,” at 7 p.m. For more information, visit gatech.bksstore.com.

Apr. 17
The Ferst Center for the Arts welcomes gospel singer Mavis Staples at 8 p.m. Faculty and staff receive a 10 percent discount. For tickets, call 894-9600.

Apr. 18
The Music Department presents a spring choral concert in the First Presbyterian Church of Atlanta (next to the High Museum of Art) at 5 p.m., featuring the chamber choir and chorale. This is a free event. For more information, call 894-8992.

Brown Bags/Conferences/Lectures

Apr. 15
The School of Mechanical Engineering’s Woodruff Colloquium Series welcomes Steven Vogel, professor of biology at Duke University, on “Cambered Wings and Chain Saw Cutters: When Have We Managed to Copy Nature’s Mechanical Devices?” at 11 a.m. in the Nall Auditorium. For more information, e-mail ari.glezer@me.gatech.edu or call 894-3266.

Apr. 21
The School of Psychology Colloquium Series welcomes Peter Killean, professor of behavioral systems at Arizona State University, on “Greek Mind/Greek Mind: Chaos, Complementarity, and Consciousness,” at 5:30 p.m. in room 250, Coon Building. For more information, e-mail christopher.herzog@psych.gatech.edu.

Apr. 22
The Center for International Business Education and Research (CIBER) hosts the 10th Georgia Tech Global Business Forum on “Brazil and Its Markets: Opportunities for U.S. Firms,” at GCATT. Students attend free; pre-registration required. To register, visit www.mgt.gatech.edu or e-mail mark.ballam@mgt.gatech.edu.

Apr. 29
The School of Industrial and Systems Engineering’s Natural Systems Speaker Series welcomes Karl Henrik Rober, founder of The Natural Step and author of “The Natural Step Story: Seeding A Quiet Revolution,” at 11 a.m. in the Ferst Center for the Arts.

Miscellaneous

Apr. 19-23
The bookstore holds a campus appreciation sale, giving faculty, students and staff a 20 percent discount on general merchandise, trade books, school supplies, cafe items, music and DVDs. A valid BuzzCard is required. For more details, visit www.gatech.bksstore.com.

Apr. 20
A called meeting of the General Faculty and the Academic Senate, and the annual meeting of the Academic Faculty will be from 3 - 5 p.m. in the Student Center Theater. An agenda is posted on the faculty governance Web site: www.facultysenate.gatech.edu. For more information, e-mail said.abdelkhalil@me.gatech.edu.

Apr. 21
The Georgia Tech Women’s Forum welcomes Police Chief Teresa Crocher, who will report on campus crime statistics during a lunch meeting in room 519 of the Student Center. To attend, e-mail suswana.murchison@gti.gatech.edu.

Apr. 23
Georgia Tech’s Seventh Annual Earth Day Celebration Festival takes place 10 a.m. to 2 p.m. at the Skiles Walkway, featuring live music, prize giveaways, demonstrations of alternative-fuel vehicles, and an interactive trivia maze.

C A S S I F I E D S

Appliances

Microwave, full size, stainless steel, Emerson, less than 2 years old, $50. E-mail Louis at ggt515k@mail.gatech.edu.

White Amana cooktop, gas. Renmore digital built-in oven, white.
Both in good condition. $100 for both. Call 770-844-0852.

White Jenn-Air downdraft cooktop. Two fixed burners, swappable burner module/grill/griddle. $200 OBO. E-mail bleepySrcc@earthlink.net.

Automobiles


Furniture

Bedroom set, maple finish, queen headboard, 7-drawer dresser with large mirror, 2 night stands w/2 drawers each. Lots of storage. Good condition. $300. Call 585-8901.

Steel-framed futon, couch/bed on bottom, twin mattress, $200. Call 404-219-2204.

Queen-size oak waterbed frame, headboard, and mattress with matching chest and dresser with mirror, $500. Call 585-0042 or e-mail chris.hamlin@hpcl.gatech.edu.

Queen-size oak waterbed frame, headboard, and mattress with matching chest and dresser with mirror, $500. Call 585-0042 or e-mail chris.hamlin@hpcl.gatech.edu.

White solid maple baby bed and mattress with queen-size headboard/footboard w/railings, 2 dressers with lots of storage, 10 drawer chest and dresser with mirror, $500. Call 404-894-2753.

Real Estate/Roof/Panes

House for Sale/Vinings: approx. 5,500 sq. ft., finished living space. 6BR/4.5BA, Bright, open floor plan. Wooded back yard. 20 mins. to campus, $600,000. See: http://homesencesusa.com, use ID# 892684.

For rent: 1BR apartment at 1219 Francis St. Downstairs of charming, new bathrooms. Call 404-816-8370.


Miscellaneous

1997 Kawasaki KE100 motorcycle. Only 135 miles, title and street legal bike. It has high fender flaps but also lights, blinkers, etc. $400. Call 894-7185 or e-mail said.abdelkhalil@me.gatech.edu.

Five-stone diamond ring. 1 carat total, 14kt. yellow gold, $500. Call 894-8907 or e-mail marie.mcvay@icpa.gatech.edu.

Free: black and gray lab/terrier mix, five years old, spayed, very sweet. E-mail xauxdad@hotmail.com or call 770-612-1198.