Stallings named Virginia Cooperative Extension associate director

By Charlie Stoll

Charles Stallings, dairy science professor at Virginia Tech, has been selected as associate director of Virginia Cooperative Extension (VCE) for agriculture and natural-resource programs, according to VCE Director Steve Umberger.

Stallings has been a member of Virginia Tech’s faculty since 1979 and for the past 12 years has been project leader forExtension’s dairy-science programs. He also has been director of the Virginia Tech Forage Lab since 1991 and served as interim department head of the dairy-science department from 2000-2001.

“Charlie Stallings brings years of leadership and experience to this position,” Umberger said. “We are fortunate to have someone with his knowledge of and dedication to Extension’s educational programs and to the agriculture and natural-resource industries that we serve.

“He has been an outstanding performer in his department and the university and has provided leadership for many state, regional, national and international efforts,” Umberger added. “We look forward to his strong leadership for our agriculture and natural-resource programs.”

Stallings, who will assume his new position September 1, has been involved in Extension’s dairy programs since 1981 and has been providing leadership for those programs for the past 12 years.

He said that one of his goals in his new position will be “to help build our system back after the budget cuts we have endured in recent years. The agents in the field and our specialists are at the heart of the system that serves the agriculture and natural-resource industries.

“My role will be to bring in good new people, as we can, and to help our existing faculty members, here and in the field, to develop and deliver strong programs.”

Stallings’ own programs have been characterized by the use of emerging technologies, such as on-farm computers for ration formulation, computer feeding programs, usable software for dairy producers and consultants and an emphasis on forage quality.

He also initiated a Feed and Nutritional Management Cow College short course that has attracted participants from five states. In 2001, the course served as a satellite downlink site for release of new National Research Council’s Nutrient Requirements of Dairy Cattle.

Stallings has produced 28 Extension publications, 18 refereed journal articles, more than 165 articles in popular newsletters and trade magazines, more than 60 papers and presentations at conferences and conventions and 20 articles in conference proceedings.

He was awarded the Alumni Extension Excellence Award in 2002 and has been a member of the Extension Team Award winner in 1992 and 2001. Stallings has made more than 30 international trips to 16 countries to present information on dairy-cattle nutrition.

He received his bachelor’s degree from Eastern Kentucky University and his master’s and Ph.D. from Michigan State University.

Extension Director’s Statement on Fighting Incident at 4-H Camp

By Steven H. Umberger, Virginia Cooperative Extension director

Virginia Cooperative Extension regrets the fighting incident that has now been confirmed to have taken place at the Smith Mountain Lake 4-H Educational Center during the week of June 30 to July 4. We want to thank Franklin County Sheriff Quint Overton and his staff for their professional, prompt and thorough investigation of this incident.

For more than 100 years, 4-H has been helping young people develop into good citizens. Consequently, we do not condone or tolerate the poor judgment and the inexcusable behavior on the part of those individuals who were involved in this deplorable event.

Once informed of the fighting, we immediately initiated several steps to enhance the care and safety of 4-H campers. We also launched an internal review of camp security and camper supervision. In addition, we have looked for ways that current policies and guidelines can be further refined to prevent this from happening again.

Our six 4-H centers are all accredited by the American Camping Association, a national organization which provides rigorous safety standards that govern every aspect of camp staffing, programming and operations. Virginia has one of the largest 4-H camping programs in the country with more than 26,000 participants.

(See EXTENSION on 2)

Police Department implements ‘Park, Walk, and Talk Program’

By Ada Hatzios

Expect to see a lot more police officers on campus—but for a good reason. A new program created by the Virginia Tech Police Department is putting more officers patrolling the campus and visiting university faculty and staff members and students in the buildings. The “Park, Walk, and Talk Program” is a community-policing program founded by Captain Robert Baudo.

“The purpose of the program is really to interact with the community so they can become comfortable with us and we can understand their concerns,” Baudo said.

Baudo said people usually only interact with the police when something bad happens, but that their job involves more than the criminal aspect.

“We want to let people know that we’re there to enforce laws and regulations of the state and the university, but we’re also there to provide a service,” he said.

The “Park, Walk, and Talk Program” is an addition to the police department’s “Adopt-A-Hall Program,” where police officers are assigned to residence halls in an attempt to increase communications and build trust between students and the Police Department.

University announces record licensing royalties

The Virginia Tech Licensing and Trademark Department has announced that it had a record year for the sales of Virginia Tech products.

For the fiscal year 2002-03, a total of $833,902.00 in royalties was collected from almost 500 licensees manufacturing Virginia Tech products. The previous record of $758,255.00 was paid in the fiscal year 2000-01. Over the past five years licensing revenue has gone from $251,178.00 to $833,902.00.

Virginia Tech students receive financial aid benefit, as the majority of the licensing revenue goes to the university general-scholarship fund.

These licensing revenues represent an 8-
McNair Scholars Program Research Symposium set

The Virginia Tech McNair Scholars Program will hold its Fourth Annual Summer Research Symposium on Saturday, July 26 at 8:30 a.m. in Donaldson Brown Hotel and Conference Center rooms D and E.

The symposium showcases the work of 13 undergraduate students who have been engaged in a 10-week research experience with Virginia Tech faculty members as a part of their participation in the McNair Scholars Program.

Students will present their research orally to the campus community and will represent a variety of disciplines including psychology, architecture, animal and poultry science, forestry, human development, math, plant pathology, physical and weed sciences, and urban affairs and planning.

Contact Sonja Crockett (scrockett@vt.edu; 1-4133) for more information.

Weight-loss study needs female participants

Researchers in the Department of Human Nutrition Foods and Exercise are looking for women who are 32-45 years of age, interested in losing weight and are willing to follow a 12-week weight-loss intervention.

The benefits for the participant include participating in a supervised weight-loss program, free bone scan (measures bone mineral density and determines osteoporosis risk); analysis of bone turnover rate, measurement of body composition, cholesterol and lipid profile, and measurement of oxidative stress markers.

The study begins in late August. Researchers will be screening for eligible participants for the next four weeks.

Differences between the Atkins diet plan and traditional diet recommended by the American Heart Association will also be assessed in this study.

For more information, contact Mary Dean Coleman by either e-mail (preferred) at macolema@vt.edu, or call 1-7387.

EXTENSION

Continued from 1

attending camps annually. This is the first time since 4-H camping began in 1917 that an incident such as this occurred. During the week the fighting occurred, there were 22 adult volunteers and Extension staff members and 50 teen counselor volunteers from Bedford and Halifax counties as well as permanent summer camp staff members who were on the grounds at all times. Extension agents, who accompanied the campers, and a paid night watchman patrolled the lodges and grounds at different times during the late evening and nights. We anticipate that the result of this investigation will provide insight into how this fighting went undetected given the checks and balances and the multiple layers of supervision that are built into the current system.

To date, Virginia Cooperative Extension has taken the following actions:

The teen and adult counselors who were implicated in the fighting were immediately suspended as 4-H volunteers and barred from all 4-H activities until completion of the investigation.

The paid staff person, or master 4-H camp director, will make nightly checks on all lodges during the camping session with a heightened level of vigilance between the hours of 10 p.m. to midnight, and at other times as deemed appropriate.

All camp counselors, camp programming staff members, night security, and volunteers are to be at a heightened level of awareness regarding any complaints of misconduct and immediately report any incidents to the appropriate Extension agent.

All 4-H center staff members hired specifically for camp security are to report any and all unusual activities or disturbances occurring in a lodge to an Extension agent, 4-H program assistant, or master 4-H volunteer of the same gender as the respective lodge to immediately deal with any disruptive behavior. Historically, the camp security staff’s major responsibility has been to prevent unauthorized persons from entering camp property at night and to keep young people in their lodges after lights out. They have now been directed to take a proactive role in immediately reporting and acting on any questionable behavior.

This incident has certainly raised the awareness of all individuals responsible for 4-H camper supervision on the importance of closely adhering to all policies and guidelines set forth to ensure the safety of all campers. Based on the findings and recommendations of the task force that will meet in early August, further refinements to our 4-H camping policies will be implemented if needed.

Virginia’s 4-H camping program has been in existence since 1917. Please rest assured that Virginia Cooperative Extension will take all steps necessary to provide a safe, wholesome, educational, and enjoyable environment for all future 4-H camp participants.

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EXTENSION

Continued from 1

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The teen and adult counselors who were implicated in the fighting were immediately suspended as 4-H volunteers and barred from all 4-H activities until completion of the investigation.

As of July 15, funds were earmarked and allocated to all six 4-H centers to be used to enhance camp security.
On-line class redesigned to make use of interactive teaching tools

To meet a growing need for current health-care education and to help further the university’s strategic plan “to increase the variety of pedagogical experiences for Virginia Tech students” (Undergraduate Education 2.3), the on-line class, “Women’s Reproductive Health: Issues and Contraceptive Choices,” has been redesigned to make use of interactive teaching-and-learning tools and methodology in multimedia presentation.

The class resulted from collaboration between Schiffert Health Center (SHC) and the Institute for Distance and Distributed Learning (IDDL). To view, visit www.iddl.vt.edu/courses/DSHC001/.

Originally, a class on contraceptive issues offered two-to-three times per week was taught by a staff member in a traditional classroom. Students wanted more convenience and accessibility, so a slide-show was placed on line in 2000. The number of students served more than doubled in the first year alone.

SHC Health Education Director Beth Thompson anticipates another increase in numbers now that the new multimedia, highly interactive class has been activated. “This is a cutting-edge program unique to Virginia Tech. It will serve as a model to other institutions of higher education,” Thompson said.

The course’s modular structure facilitates a learned process in which the unit building upon the next. Self assessments provide students with the opportunity to evaluate knowledge gained throughout the course. According to the site’s privacy statement, all information remains completely confidential and not tied to any Virginia Tech student records.

Links provided on the course web site include the Virginia Tech Women’s Center, as well as health information and organization sites offering information on general health topics. SHC also provides a library of on-line publications with topics that cover everything from the common cold to HIV testing.

Student feedback gathered through a pilot testing phase of the project helped to pinpoint improvements that will ensure high satisfaction with the content and delivery of the new class.

Reynolds Homestead joins Outreach, International Affairs as part of Southside initiative

By Susan B. Felker

A new reporting structure for the Reynolds Homestead, Virginia Tech’s continuing-education center in Patrick County, will link the historic facility to the university’s programs in the Southside and southern Piedmont areas of Virginia, providing additional opportunities for the university to serve the region.

Effective July 1, the director of the homestead reports to Timothy W. Franklin, director of university outreach programs for Southside. The change, which places the homestead within the university’s Outreach and International Affairs, is part of a strategic initiative to consolidate administration of the university’s programs that serve the public.

“Centered around the historic 1843 birthplace of tobacco manufacturer R.J. Reynolds, the Virginia Tech Reynolds Homestead center offers a rich variety of cultural, educational, and community programs, courses, and the Forest Resource Research Facility. These programs complement the science and technology programs that will be available through the Institute for Advanced Learning and Research (IALR) in Danville, already part of Outreach and International Affairs,” University Provost and Vice President for Academic Affairs Mark McNamie said in announcing the re-assignment.

By adding the Reynolds Homestead to Tech’s Southside outreach initiative, the university will strengthen its presence in the region.

“Virginia Tech’s Reynolds Homestead is a wonderful asset to Virginia Tech and to the region. The historic site, Reynolds Homestead is the logical focal point for leadership and coordination,” Franklin said.

The forestry program at the Reynolds Homestead, which will remain a part of the Virginia Agricultural Experiment Station (VAES) program, ties into the high-value crops initiative and biotechnology research effort that will soon begin in Danville. The Virginia Tech Agricultural Research and Extension Centers throughout the state are a part of VAES.

The Reynolds Homestead compound, (See HOMESTEAD on 4)

EMPLOYMENT

The following classified positions are currently available, including details, specific application procedures/position-closing dates may be found on Personnel Services website http://www.ps.vt.edu. Positions are also listed on the Job Line, a 24-hour recorded message service. For information on all job listings, call 1-5300. Some positions include state benefits. Positions with numbers beginning with “W” are hourly and do not include state benefits. Individual details, qualifications, desires assisting or accommodation in the application process should call by the application deadline. Closing date for redetermining position is May 31, 2004. An EO/AA employer committed to diversity.

CLASSIFIED POSITIONS

FULL TIME
First Baker, 000996H, PB2, Student Programs.
Administrative Assistant, 006326S, PB3, UAP.
Administrative Assistant, 002390J, PB3, Human Development.
Assistant Manager Senior, 000514H, PB3, Student Programs.
Budget Analyst Senior, 002075S, PB5, BFP.
Capital Budget Manager, 000799S, PB5, BFP.
Computer Operations Technician Senior, 001054Y, PB2, Test Scoring.
Computing Support Professional, 006872Y, PB4, UCS.
Customer Service Analyst, 007088F, PB3, University Bursar.
Development Associate, 002226S, PB3, University Development.
Headquarters Assistant, 000102H, PB3, Student Programs.
Headquarters Worker, 000102H, PB3, Physical Plant.
In-vehicle Experimental, 008050J, PB4, VTTI.
Laboratory Specialist, 007860C, PB3, CVM.
Licensed Practical Nurse, 000354J, PB3, Schiffert Center.
Medical Technologist, 002651C, PB4, VTH.
Plumber Steamfitter, 001606F, PB3, Physical Plant.
Power Plant Operator Shift Supervisor, 003353F, PB3, Power Plant.

Powerline Worker, 006524F, PB3, Facilities Management.
Pre-Prep Supervisor, 000394H, PB2, Student Programs.
Program Support Technician, 007216B, PB2, CEODA.
Research Specialist, 008173C, PB3, CSES.
Small Animal ICU Technician, 008095C, PB4, VTH.
 Sous Chef, 002464H, PB3, Student Programs.

PART TIME
Academic Captionist/Transcriber, W023966J, PB3, SSD.
Administrative Assistant, W025527K, PB2, VBI.
Animal Care Technician, W020556C, PB2, CVM.
Animal Care Technician A, W022563C, PB1, VTH.
Housekeeping Worker, W023573G, PB1, Physical Plant.
 Lab Technician, W023572C, PB3, FST.
 Night Auditor/Front Desk Clerk, W02357G, PB2, DBHCC.
 Office Aide, 002357G, PB1, VTH.
 Risk Management.
 Parking Enforcement Officer, 004151SS, PB2, Parking Services.
 Radiologic Technologist, W022238M, PB3, Schiffert Center.
 Switchboard Operator, W020821M, PB2, VTH.

UNIVERSITY ONLY
Administrative Assistant, U002682J, PB3, Center for Animal Science.
OFF CAMPUS
Administrative Assistant/Volunteer Services Assistant, 008153M, PB2, CVM.
Animal Care Assistant, 008147M, PB1, CVM.
Animal Care Technician, 008143M, PB2, CVM.
Assistant Controller, CECOFF, PB0, VTF.
Grounds And Maintenance Worker, 001499M, PB2, CVM.
Isolation Nursing Supervisor, 008153M, PB3, CVM.
Laboratory Specialist, 008152M, PB3, CVM.
Nursing Shift Supervisor, 002996M, PB2, EMC.

Operating Room Technician, 008144M, PB2, CVM.
Personnel Assistant, U008154M, PB2, CVM.
Radiologic Technologist, 008141M, PB4, CVM.
Research Specialist, 007449C, PB3, VSREC.
Student Services Assistant, U008151M, PB2, CVM.
Switchboard Operator, 008150M, PB2, CVM.
Wildlife Worker, 006643B, PB2, Biology.

INSTRUCTIONAL
Department of Finance, Assistant Professor, 002872S, PB2.

NON-INSTRUCTIONAL
Office of Undergraduate Academic Affairs, College of Liberal Arts and Human Sciences, Career And Legal Affairs/Recruiter/Recruiter.
Contact: Valerie Giddings, (0426).
Virginia Bioinformatics Institute. Metabolism Specialist. Contact: Deb Darnell, (0477).
Virginia Bioinformatics Institute. Molecular and Protein Biologist Research Associate. Contact: Deb Darnell, (0477).
Virginia Bioinformatics Institute. Molecular and Protein Biologist Postdoctoral Associate. Contact: Deb Darnell, (0477).
Biochemistry Department, Research Associate. Contact: Katherine Phillips, kmphill@vt.edu.
Department of Psychology, Research Associate. Contact: Robert Stephens, stephens@vt.edu.
VCE. Extension Agent, Animal Science.
Louisa County. Contact: Steve Umeberger, (0437).
VCE. Extension Agent, Agriculture/Natural Resources. Cumberland County. Contact: Steve Umeberger, (0437).
VCE. Extension Agent, Agriculture/Natural Resources. Lunenburg County. Contact: Robert Ray Meadows, (0437).
VCE. Extension Agent, Agriculture/Natural Resources Albemarle County. Contact: Steve Umeberger, (0437).
Researchers lead at aquaculture symposium

By Lynn Davis

If the world wants to continue eating fish, the future pools of supply will need to come from aquacultured products. Virginia Tech continues to be a leader in the development of technologies needed to deliver safe foods cultured in healthy environments.

At the World Aquaculture Society (WAS), meeting held recently in Louisville, Kentucky, Virginia Tech Aquaculture Center and CFAST (Commercial Fish and Shellfish Technologies) staff members organized and moderated special sessions in yellow-perch culture, aquaculture disease and developments in marine flatfish technologies.

Virginia Tech researchers and students — representing the strongest research presence at the world-wide annual conference, gave over 14 scientific presentations as a result of the university’s high profile at the WAS meeting. Alltech Inc., one of the world’s fastest-growing animal-feed-additive companies, commissioned Ewen McLean, director of the university’s Aquaculture Center, and Steven Craig, head of the center’s nutrition group, to assist in developing a special session on aquaculture for the 19th Annual Symposium on Bio-technology in the Feed Industry. “Our research not only has important ramifications to the aquaculture industry but also has significant implications for the development of oral drug carrier systems for other animals and humans,” said McLean, who is a fisheries professor in the College of Natural Resources.

“Aquaculture has been the fastest-growing component of any sector of agriculture production for the last quarter century, and its growth shows no sign of slowing,” Craig, associate professor at the College of Veterinary Medicine, said. “Aquaculture production has become of increasing importance to the domestic economy as the only means of offsetting an imbalance of trade in seafood products, which presently stands at $5 billion annually.”

McLean said, “Virginia is an important player in the national aquaculture scene with total sales of around $25 million in 2002. In addition to being one of the country’s most important producers of tilapia, clams, and softshell crabs, the state is the seventh-largest producer of trout, Virginia, which also supplies oysters, scallops, catfish and hybrid striped bass to regional markets, has recently examined the possibility of producing other marine and freshwater species using intensive aquaculture methods.”

With increasing concerns over traceability and food security and safety, aquaculture represents the only means of safeguarding our aquatic-based food supply. The Aquaculture Center is currently investigating the fresh-water fish species, yellow perch and tilapia and the marine fish, summer flounder, southern flounder and cobia. There are plans to expand species diversity housed at the center with pompano, Atlantic stingray and marine shrimp later this year.

HOMESTEAD

Continued from 3

more than 700 acres just outside the town of Criz, is the birthplace and boyhood home of tobacco manufacturer R.J. Reynolds. A registered state and national landmark, it is open for tours from May through October and at other times by appointment. The conference building is the center for a series of concerts, exhibits, plays, discussions, lectures, and celebrations. The Forest Resources Research Center web site is at http://www.cis.vt.edu/reyiolds_homestead/. The Forest Resources Center’s web site is http://arces.vaes.vt.edu/arces.cfm?webname=arces.

POLICE

Continued from 1

This idea is taken one step further with the “Park, Walk and Talk Program,” where patrol officers are assigned to a “zone,” a portion of the university campus containing two to three academic or administrative buildings. During their shifts, the officers are assigned to patrol the campus and at certain times during their patrol hours they will work in their zones. The officers will park their cars, walk around the zone area and go inside the buildings to visit with the people inside. This provides an opportunity for the officers to better understand and get to know the university community, Baudo said. Approximately 24-25 patrol officers participate in the “Park, Walk and Talk” program, he said. The Police Department has also acquired seven new recruits from the academy, who will be working in the “Park, Walk and Talk” program, he said.

The campus is divided into 24 zones, with two or three academic or administrative buildings per zone, Baudo said. The main campus has 18 zones, with the north end divided into odd numbers and the south end divided into even numbers, and the Corporate Research Center, Virginia Tech Airport and barns comprise the other six zones. Each officer will patrol a minimum of two, probably three, zones during his or her shift, he said.

Police work tends to be more reactive rather than proactive, Baudo said, and this program aims to create a more proactive approach to policing. Baudo has 30 years of experience as a police officer, having worked 20 of those years with the New York City Police Department and then retired before moving to Blacksburg. He worked in a community policing program with the NYPD, but says it is still a fairly new program in police work, having begun in the early mid-1980s.

“Once you get out of the car and move around, you get to know people,” Baudo said. “It becomes easier to do our job when we know the community we’re sworn to protect and serve.”

Baudo said he hopes that having regular contact with police officers will make people feel more comfortable in relaying any concerns or questions they have to the police.

He said he is hopeful that this program will be a positive asset to the department’s police work and will be a benefit for the university community.

“To do our jobs right, we need to be out there in the community.”

New electronic publication online in August

HokiE-News, an electronic publication featuring Virginia Tech Newsmakers, a university events calendar, links to clips about Virginia Tech in the news, and more will be available online August 29. The publication is produced by University Relations for faculty and staff members, alumni and friends of Virginia Tech. “Because an electronic publication is not confined to the amount of space available in a newspaper or a publishing schedule, it offers far more immediacy and flexibility,” University Relations News and Information Director Jean Elliott said.

HokiE-News will be updated regularly throughout the week, Elliott said, and will have the ability to use photos, graphics, and video. A campus-wide survey will also be distributed to gather suggestions which will be used to tailor the electronic news service to the needs of the university community.

This fall, Spectrum will continue its current bi-weekly publication schedule. In the off-week for Spectrum publication, an e-mail will be sent to the campus community to notify them of the updated HokiE-News site.

The change in presentation follows an extensive review of the university’s national benchmark institutions as defined by SCHEV and in-state colleges and universities. “HokiE-News is designed to be a greatly expanded version of the email and in other electronic news, ” Elliott said. “We hope that with input from the university community it will become a vital part of our information-delivery system.”

VET MED

Continued from 1

cause disease, only about 10 F. tularensis cells are required to cause disease, according to Inzana. The organism could conceivably be aerosolized and used as a bioterrorism agent at home or abroad; hence, the military interest. A World Health Organization Committee estimated that aerosol dispersal of 50 kilograms of virulent F. tularensis over a city of five million people would result in 250,000 inhabitants becoming seriously infected, including 19,000 deaths.

One aspect of F. tularensis that makes it dangerous is its ability to resist host defenses, Inzana said. Unlike many bacteria, F. tularensis has the ability to survive inside some of the front-line defenders of the body’s immune system. As phagocytes cells such as macrophages rush to attack and consume the invading pathogens, F. tularensis actually uses the macrophage as a home and multiplic

Agency recognizes geosciences research

By Susan Trulove

Professor of Geological Sciences Michael Hochella Jr. and his former doctoral student Steven Lowery, a faculty member at the University of Maryland, have received an award for Most Outstanding Research from a University at a Department of Energy Symposium on Geosciences at Argonne National Labs.

The award, Potential applications such as measurement and control of various metals in soil and water, are being reported by Hochella’s students at such meetings as the American Chemical Society, Geological Society of America, and the American Geophysical Union.

Robert Bodnar, university distinguished professor of geological sciences, told the Mineralogical Society of America when Hochella received the Dana Medal last year, “Mike and his students have become the world leaders in scanning force microscopy studies of mineral surface geochemistry, (Their) first principle quantum chemical calculations are providing valuable and unexpected insights into fluid-mineral interactions at the molecular scale.”

Within it.

While scientists do not yet know much about the biology of the organism, they do know that it has a capsule-like substance on its surface. Inzana, who recently developed and patented a vaccine for swine pleuropneumonia by mutating the DNA required for capsule synthesis by Actinobacillus pleuropneumoniae, and selecting for a non-capsulated vaccine strain, plans to apply his expertise in bacterial carbohydrate antigens to the new vaccine and diagnostic test development program.

His research team will isolate and characterize both the capsule and the outer membrane proteins that enable the organism to survive inside macrophages. The key is creating an effective vaccine will be their ability to identify and stimulate the production of proteins that stimulate T-cells of the cellular immune system. It is hoped that antibodies to the capsule will help to clear the bacteria that are not yet in phagocytic cells, and that T cells of the cellular immune system will kill the cells harboring the bacteria.

In another aspect of the project, Inzana is working with Anbo Wang and Kirstie Cooper in the College of Engineering’s Center for Photonics Technology on a project that will develop photon-based biosensors to detect the F. tularensis capsule or DNA in the field. Ultimately, that research could lead to the development of rapid pathogen sensing biosensors that could detect multiple pathogens on the battlefield.

Inzana is a noted molecular microbiologist who has generated $4 million in extramural funding and been awarded three patents for intellectual properties arising out of research that has led to the development of vaccines for economically important agricultural diseases. A former director of the Center for Molecular Medicine and Infectious Diseases, Inzana also serves as director of Clinical Microbiology in the Veterinary Teaching Hospital.