

# Tau Beta Pi Scholars - 2005-06

## Kyle A. Frazier, *Nagel Scholar No. 21*

Kyle is ranked at the top of his engineering class at Mississippi State University where he is majoring in civil engineering. He hopes someday to influence technological research and development at the federal level. He plans to study computational mechanics at the master's level, possibly in Great Britain.



## D. Jason Owens, *Nagel Scholar No. 22*

Jason's extra effort to complete a dual degree in chemical engineering and mathematics at the University of South Carolina now seems worthwhile. He wants to earn his Ph.D. in bioengineering and focus on brain/electronics interfaces. He's the President of Tau Beta Pi's South Carolina Beta Chapter.



## John H. Colebrook, *Dodson Scholar No. 15*

John is finishing his chemical engineering degree at Bucknell University and faces a decision. He could accept work incorporating chemical engineering and environmental management right away, or he could pursue postgraduate work. John is a member of Tau Beta Pi, AIChE, and Delta Upsilon.



## Ryan M. Riess, *Dodson Scholar No. 16*

Ryan is pursuing his bachelor's degree in civil engineering at the University of Missouri-Rolla. When he graduates, he sees a strong possibility of attaining a job in the petroleum industry. He completed internships with two major petroleum companies. Ryan is an active member of Tau Beta Pi and other honor societies.



## Kellen D. Sick, *Dodson Scholar No. 17*

Kellen's commitment to flying shines both in his upcoming aerospace degree at the University of Southern California and his acceptance as a pilot in the U.S. Air Force. He intends to become a test pilot and eventually work in industry. He is in Tau Beta Pi and Phi Kappa Phi, and is wing commander of his ROTC detachment.



## H.E. Collins, *Elsa & Peter Soderberg No. 7*

Hannah is attending Yale University where her major is biomedical engineering with a concentration in molecular engineering. She intends to study the subject of sensory differences in humans from the aspects of physiology, central processing, and genetics. She is an avid cellist and a member of TBPI and PhiBK.



## D.A. Turner, *Ala. Power Co. Schol. No. 5*

Delores studies electrical engineering at the University of Alabama where her co-op experiences with the Alabama Power Company have reinforced her decision to go into the field of power distribution. She predicts a lifelong connection to local Tau Beta Pi chapters, wherever she works or studies.



## Megan R. Baldrige, *Fluor Scholar No. 5*

The promise of improving human lives attracted Megan to the chemical engineering program at Auburn University. Her long-term goal is to lead a research team in the biomedical/bioengineering field. After graduating, she will gain practical knowledge in the private sector before resuming her work toward a Ph.D.



## Justin A. Kasemodel, *Stabile Schol. No. 5*

After he completes his B.S.E.E. at South Dakota School of Mines and Technology, Justin would like to continue into graduate study there. His research has resulted in a strong focus on applied electromagnetics and antennas. Despite working multiple jobs, he has been active in TBPI, HKN, and PhiE.



## Jodi L. Liu, *Campbell Scholar No. 6*

Jodi plans to apply to the University of Michigan's graduate/undergraduate study program. She would spend five years pursuing both the chemical engineering undergraduate and also the biomedical engineering graduate degree. She has done extensive research work as well as humanitarian volunteer efforts.



## Jeffrey M. Stoltzfus, *Campbell Sch. No. 7*

A strong interest in the fields of power generation and alternative energy research motivated Jeff in his pursuit of an electrical engineering degree at Bucknell University. While working on his graduate degree, he hopes to develop alternative energy solutions and energy-storage technologies.



## Alison A. Trachet, *Campbell Schol. No. 8*

After completing her B.S.C.E. at the University of Florida, Alison will take time to gain experience in a specific field in "real world engineering" before deciding on a direction of study in graduate school. She is President of Tau Beta Pi's Florida Alpha Chapter and active in community service projects.



## B.L. Crater, *General Motors Scholar No. 3*

Race-car engineering is on Bobbie's mind as she finishes her mechanical engineering degree at South Dakota School of Mines and Technology. She is a senior member of the school's Society of Automotive Engineer's formula race-car engineering team and seeks the chance to join a professional racing organization.



## Trisha L. Culbertson, *Scribner Sch. No. 2*

Trisha intends to use her degree in biological and agricultural engineering to develop sustainable use of the earth's soil and water resources. She will develop research skills and earn graduate credit while finishing her B.S. degree. She has been active in a variety of professional, scholastic, and service organizations.



## Himani Suhag, *Scribner Scholar No. 3*

While at Rensselaer Polytechnic Institute, Himani has pursued a dual-major of electrical and computer & systems engineering. She will concentrate on nanotechnology and semiconductor manufacturing during her master's program and a possible Ph.D. program. She has been active in numerous organizations.



## David W. Chesser, *Mentor Schol. No. 2*

By the time he graduates, David plans to have earned a major in electrical engineering and a minor in both technical writing and mathematics. He perceives the allure of graduate school, but also sees virtue in starting his professional career. He has been active in TBPI, AE, HKN, the IEEE, and sports.



## Sean P. Pitroda, *Winkler Sch. No. 1*

Sean is studying biomedical engineering at the Illinois Institute of Technology with an emphasis on cell and tissue engineering. Outside class, he strives to build public awareness of his field and to attract interested students. He plans to enter a M.D./Ph.D. program and do research that cuts across several disciplines.



## Jeremy F. Wright, *Winkler Sch. No. 2*

Jeremy is studying mechanical engineering at the University of Cincinnati while doing co-op work with an engineering consulting firm. He plans to take the F.E. exam, finish his degree, attend graduate school, and then become a professional engineer. His interests include athletics as well as community activity.



**Melodie E. Benford, Tietjen Scholar No. 1**

Melodie is a senior in biomedical engineering at Louisiana Tech University. Along with her studies, she is actively seeking experience in laboratory and research work as preparation for graduate school. Active in numerous academic, professional, and service groups, she intends to seek a Ph.D.



**Isaac M. Abbott, Record Scholar No. 79**

After completing a B.S.E.E. at Cedarville University, Isaac plans to select a graduate program in New England. There, he will take every opportunity to experience teaching and, if teaching suits him, undertake a Ph.D. He has remained involved with engineering-related societies as well as religious groups.



**C.D. Anderson, Record Scholar No. 80**

Cressel will graduate with an electrical engineering degree from UNC at Charlotte. He will pursue an advanced degree, concentrating on optics in general and on novel visualization techniques in particular. His priorities as a senior include getting published and stepping up his involvement in TBIH and other groups.



**B.M. Andrews, Record Scholar No. 81**

Blake's major is civil engineering, but he is also earning a minor in business and studying for a professional surveyor's license. He will pursue a graduate degree specializing in either structural or geotechnical engineering. Later, he might work in governmental service, start a business, or seek his Ph.D.



**S.E. Bartley, Record Scholar No. 82**

Stefanie plans to earn a B.S. in aerospace engineering and a minor in mathematics. She is considering graduate programs with hopes of continuing her interest in all areas of aerospace engineering and plans to work in the area of flight testing. She plays sports and is active in TBIH and EIT honor societies.



**Pamela A. Basto, Record Scholar No. 83**

Pamela plans to complete her degree in biomedical engineering at the University of Texas at Austin while conducting cell research, doing clinical rotations, and chairing a multi-university student leadership council. Her studies will include testing a microfluidic model she created and performing long-term research.



**M.P. Bennett, Record Scholar No. 84**

Matthew is pursuing a B.S.M.E. at the University of Florida. After gaining more experience in diverse research environments, he hopes to pursue his interest in robotics through the defense department's "Grand Challenge" unmanned-vehicle competition. He is a member of TBIH, ASME, and IEEE societies.



**J.M. Brognahan, Record Scholar No. 85**

John is concentrating on the radio-frequency aspects of electrical engineering at South Dakota School of Mines & Technology. He will enter professional practice, designing advanced weapons systems or satellites for the government. He enjoys skiing and is a member of the IEEE and engineering honor societies.



**M.M. Brown, Record Scholar No. 86**

Michelle is finishing her senior year at the Rochester Institute of Technology, where she may continue for her master's degree. Giving to her community remains an important goal for her. She has been active in ROTC and the Association for Women in Computing. She is Vice President of TBIH's New York Pi Chapter.



**D.M. Carlson, Record Scholar No. 87**

Exploring research opportunities is Deborah's priority as she completes her B.S. in metallurgical engineering at South Dakota School of Mines & Technology. Her summer may include working at a national laboratory or in a NSF-funded program. She is a varsity volleyball player and enjoys church activities.



**D.S. Crawford, Record Scholar No. 88**

Semiconductor devices and integrated-circuit design are Dallen's primary focus as he finishes his electrical engineering degree at Idaho State University. Internships inspired him, and now he wants an advanced degree in measurement and control engineering. He has been active in IEEE and church activities.



**D.E. Fratantuono, Record Scholar No. 89**

After earning a dual degree in mechanical engineering and physics at Clarkson University, Dayne will continue into graduate school. Internships have honed his engineering skills, and research opportunities have fueled his plans to pursue a Ph.D. in M.E. He's been an active tutor, mentor, and campus leader.



**Ariane I. Fund, Record Scholar No. 90**

Ariane has combined her interests in math and technical areas with her talent for aesthetic design. She will gain work experience before going back to graduate school in either structural or architectural engineering. She has volunteered as a tutor throughout college, and she enjoys multiple dance forms.



**J.R. Galjour, Record Scholar No. 91**

Jasmine is a civil engineering major at the University of Louisiana at Lafayette. She will seek a direct Ph.D. if she has the opportunity. She is the President of Tau Beta Pi's Louisiana Delta Chapter, and she has been extremely active in her work for various community and school causes.



**Philip A. Godoy, Record Scholar No. 92**

When he finishes his electrical engineering degree at the University of California, Berkeley, Philip may follow his interest in analog IC circuit design to the Ph.D. level. He has enjoyed holding positions in research and teaching roles. He has actively supported TBIH and plans to continue throughout his career.



**Justin L. Grover, Record Scholar No. 93**

His co-op work with the U.S. Army Corps of Engineers continues to benefit Justin throughout his civil engineering program at the University of Florida. He plans to complete an accelerated B.S./M.C.E. in graduate school before joining the corps. While in school, he has been active in TBIH and other honor societies.



**Jason J. Hallman, Record Scholar No. 94**

His mechanical engineering studies at Valparaiso University are helping Jason toward a planned Ph.D. in biomedical engineering. His co-op program placed him with a top-five producer of orthopedic implants, a step toward his goal of performing injury reconstruction. He is active in music, church, and campus life.



**D.D. Hammarsten, Record Scholar No. 95**

Dan has augmented his chemical engineering studies at the South Dakota School of Mines & Technology with summer work for North Dakota State University. He plans to earn a master's degree while working in the industry. Active both in school and church organizations, he enjoys weightlifting.



**Sajjad Hassan, Record Scholar No. 96**

Sajjad plans to build upon the solid electrical engineering education he has received at the University of Alabama at Birmingham. He views graduate work as being vital to his goal of becoming a communication systems engineer. He is fluent in several languages and has participated in many campus causes and societies.



**Daimon K. Heller, Record Scholar No. 97**

Ceramic engineering has been Daimon's focus at the University of Missouri-Rolla. He blends classroom study and co-op challenges to prepare himself for intensive research during his graduate studies. A member of TBIH, KME, and other honor societies, he has been active in tutoring science students of various ages.



**C.A. Hemphill, Record Scholar No. 98**

Curt will graduate with degrees in both chemical engineering and German. Research products have included the field of methane partial oxidation and syn-gas production. Based on professional advice, he will work in industry for several years before pursuing an advanced degree. He is a member of TBIH and QXE.



**Bijan Hoesseinejad, Record Scholar No. 99**

The electrical engineering skills Bijan is learning at Youngstown State University are being tested as he co-ops at Duferco Farrell Corporation's steel mill. The two experiences will prepare him to decide whether to continue into graduate studies or enter the professional world first. He is a member of TBIH, ΦΚΦ, and the IEEE.



**Gregory Kastan, Record Scholar No. 100**

Greg is pursuing an undergraduate degree in electrical engineering. He has expanded the scope of his studies through internships. He plans to take the fundamentals of engineering exam and gain experience to lay the groundwork for personal development. He belongs to TBII, the IEEE, and the Tufts sailing team.



**S.A. Koch, Record Scholar No. 101**

Ohio Northern University's civil engineering program is excellent preparation for Stephanie's ambition to earn a graduate degree in mechanical engineering and to design bridges. Meanwhile, she enjoys membership in the ASME, TBII, AAA, and ΦΚΦ. She is a volunteer for 4-H, Adopt-A-Highway, and other groups.



**M.L. Kocoloski, Record Scholar No. 102**

Sustainable energy sources have interested Matt during his mechanical engineering studies at the University of Dayton. His focus on energy harvesting is in response to growing demands for alternatives to fossil fuels. A member of TBII and ITIE, he enjoys tutoring and hopes to earn a Ph.D. in an energy area.



**J.A. Konchar, Record Scholar No. 103**

The serious responsibilities placed on Janelle by University of Delaware professors helped to solidify her interest in biomedical research. She plans to enter an accredited graduate program and hopes someday to develop products related to competitive sports. She is a member of TBII, OAK, and AAA.



**R.A.R. Losaria, Record Scholar No. 104**

Remy's research at the University of Florida involves machine learning, pattern recognition, and data mining. She hopes to combine employment with graduate work in computer engineering or business administration. She belongs to several honor societies and enjoys playing competitive volleyball.



**Jared E. Mairan, Record Scholar No. 105**

Though Jared has not graduated from the New Jersey Institute of Technology, he is applying his biomedical engineering skills to improving dental implants. He will enter dental school where he hopes to engineer new dental applications, such as implantology and orthodontics. He is a member of TBII, ΣΠ, and ΦΠΣ.



**S.-T.D. Mak, Record Scholar No. 106**

His passion for bridge design and construction motivates Shi-Ting in his civil and environmental engineering studies. He plans to complete a one-year master's degree after graduating from the University of California, Berkeley. His ambition is to one day build bridges to outlying areas around Hong Kong.



**A.J. Minnich, Record Scholar No. 107**

Austin is working his way through the engineering science program at the University of California, Berkeley. He devotes his time to his studies, internships, graduate-school plans, and full-time summer work. With his Eagle Scout work ethic, he remains active in TBII, jazz ensembles, intramural softball, and piano lessons.



**T.D. Moehring, Record Scholar No. 108**

Ton's mechanical engineering program at Ohio University has inspired a powerful interest in design. His attainment of a 4.0 grade average is rare on campus. Immediately after graduating, he hopes to join the field of automobile engineering or aerospace technology. He is a member of TBII, AAA, ITIE, and ASME.



**Justin R. Morris, Record Scholar No. 109**

Justin plans to earn dual degrees in computer and electrical engineering. A winner of six different scholarships, he hopes to begin internships at places like Lockheed Martin or NASA. Excellent time management has allowed him to remain involved with 4-H, intramural football and basketball, and TBII.



**S.F. Moussavi-Harami, Record No. 110**

Sayed is majoring in biomedical engineering at the University of Iowa, and his research was published in an orthopaedic journal. By graduation, he plans to have started a fast-track master's program, probably concentrating on tissue engineering. He is president of the Persian Student Organization and active in TBII.



**Evan R. Neal, Record Scholar No. 111**

Evan hopes his B.S.E.E. from the University of Utah will lead to a Ph.D. in the field of bioelectronics. He has witnessed life-threatening diseases, including disorders of the brain, and he hopes his research might relieve some of this suffering. A member of TBII and ΦΚΦ, he is enrolling in a rigorous honors program.



**Pavel Nikulin, Record Scholar No. 112**

The civil engineering program at Cooper Union has challenged Pavel (Paul) to balance his academic life with an active community life. He plans to conduct research in Osaka, Japan, but is presently active organizing environmental events and participating in the New York Water Environmental Association.



**D.C. Parkinson, Record Scholar No. 113**

David's entrepreneurial mindset drives him as he pursues a computer engineering degree from the University of California, San Diego. He has garnered interviews with Amazon, HP, and Google before his senior year. An Eagle Scout, he is active in community and school and hopes to start a global procurement firm.



**J.A. Pazour, Record Scholar No. 114**

Jennifer's degree in industrial engineering at the South Dakota School of Mines & Technology will be a major step toward her dream of teaching in college. She already holds offices in several campus organizations and is a member of TBII, ΦΠΣ, the IIE, and the Society of Women Engineers.



**Brett S. Pearson, Record Scholar No. 115**

Brett is working toward the dual majors of material science engineering and mechanical engineering at the University of Nevada, Reno. He will earn a minor in math, work as an intern, play basketball, and continue volunteering with a church youth group. He is a member of TBII and several campus organizations.



**J.M. Roadman, Record Scholar No. 116**

Unmanned aircraft are Jason's focus as he completes the aerospace program at Virginia Polytechnic. He has been chief engineer in an undergraduate international unmanned-electric-aircraft competition and seeks internship opportunities in the industry. A member of TBII and ZIT, he performs mountain rescues.



**M.D. Sadowitz, Record Scholar No. 117**

Michael did not just conduct lab work at the University of Nevada, Las Vegas; he helped to establish his school's new nanotechnology laboratory. After graduating in electrical engineering, he will enter graduate school, seek teaching opportunities, and pursue research interests. He is active in TBII, ΦΚΦ, and IEEE.



**S.A. Sanderson, Record Scholar No. 118**

Completing her computer science degree at the University of Kansas makes Shannon yearn for even tougher work: writing about the technical world to a non-technical audience. She is active in the Society of Women Engineers and hopes to recruit more high-school girls into engineering.



**Anna L. Sanford, Record Scholar No. 119**

What Anna started in Clemson University's biosystems engineering program, she plans to continue in graduate school at Medical University of South Carolina. Thanks to an extension program between the schools, she can continue her studies of biomaterials science and orthopedic biomechanics. She is TBII and AAA.



**John M. Sartori, Record Scholar No. 120**

John is earning a B.S.E.E. at the University of North Dakota. He plans to enter graduate school to further his studies in electrical engineering, computer science, and mathematics. He hopes to complete an internship with NASA. An Eagle Scout and member of TBII and IEEE, John enjoys performing music.



**K.W. Schriefer, Record Scholar No. 121**

Graduation from the Virginia Military Institute will mark Kyle's promotion to a second lieutenant in the U.S. Army. He hopes to attend the Army Engineering School and become a sapper, a front-line combat engineer. A recipient of numerous awards, he is a member of TBII and president of ΦΠΣ honor society.



**T.S. Seacrist, Record Scholar No. 122**

Tom's accelerated program will allow him to earn his master's degree in biomedical engineering in just one additional semester. He plans to enroll in a M.D./Ph.D. program so he can perform biomedical research. He plans to do research for his school or the NIH. He is President of the TBII DC Beta Chapter.





**Mark C. Walker, *Record Scholar No. 123***

Mark praises the countless opportunities provided to him by Bucknell University. He plans to put his chemical engineering degree to use at a leading pharmaceutical company. Mark is a member of TBII, AAA, and the American Institute of Chemical Engineers. He is an avid baseball player, umpire, and coach.



**K.S. Weinkein, *Record Scholar No. 124***

During the next year, Kerrie will graduate from the University of Missouri-Rolla, marry, and start her civil engineering career. While studying engineering, she also directed videos, led various groups, served on the comedy committee, worked as a teacher's assistant, and participated in her church and its activities.



**E.H. Werre, *Record Scholar No. 125***

Chemical engineering studies at Montana State University and co-op work with 3M have helped Hubble identify a keen interest in biological applications. He considers both chemical engineering and dentistry as viable career options and plans to tailor his senior-year studies accordingly. He is TBII and AAA.



**D.I. Wheeler, *Record Scholar No. 126***

Completing his electrical engineering degree at Valparaiso University is David's first priority. His next step may be into biomedical engineering. His own knee problem helped him understand the life-changing impact a prosthetic can have. He plays several varsity and intramural sports and is TBII and AAA.



**J.K. Whittle, *Record Scholar No. 127***

Jessica wants to put her future civil engineering degrees from the University of Oklahoma to immediate use. As soon as she can, she hopes to become a licensed structural engineer and help developing nations build earthquake-resistant structures. Jessica is a member of TBII, XE, and ASCE.



**Claire H. Woo, *Record Scholar No. 128***

After finishing her degree in environmental engineering at Princeton University, Claire hopes to help corporations minimize environmental damage in their operations. She plans an internship with an environmental consulting firm in London. She participates in sports, tutoring, music, and advocacy groups.

