



Desiree Nardini Scholl– Stout Success!

UW-STOUT-
Applied Science
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Who is Desiree Nardini Scholl? None other than the first Applied Science student to complete medical school! Graduating in 2004 with a concentration in Scientific Sales & Support, Desiree will complete her studies in podiatric medicine at Rosalind Franklin University of Podiatric Medicine in June. Looking back on her four years at Rosalind Franklin, Des spent 2½ years in classrooms and university clinics before doing four-week rotations at various hospitals where she concentrated on podiatric medicine, but was also involved with internal medicine, radiology, vascular and pediatric surgery, orthopedics and emergency medicine. Her next challenge is a three-year surgical residency in podiatry. Here's Desiree's conversation with Dr. Bomar.

Bomar: What was the most important course you took as an undergraduate at Stout?

Desiree: I can't say one was more important than the other, but the courses that I see now as being the most valuable were those that made you "think outside the box", more analytical in nature, things that make you ask "why?"—either directly via course material or teaching method— rather than being spoon-fed information to regurgitate. In this sense Advanced Physiology, Organic Chemistry and my Sales course were what prepared me most for challenges of the intensity of medical school content. Essentially, a single exam was like taking a final exam at Stout.

B: What's the most important thing

the program did to prepare you for where you are now?

D: Providing me with the opportunity to participate in non-class activities which enhanced my leadership abilities through activities such as being a department TA/Tutor, Science Olympiad, and independent research, while forcing me to manage my time effectively, as I



was also involved in athletics and worked as a student athletic trainer during my senior year at Stout.

B: Where do you see yourself practicing? In what specialty?

D: Entering podiatry school locked me into a great medical sub-specialty. Podiatry offers a variety of surgical and clinical skills - including trauma, pediatrics,

diabetic wound care, routine elective-type surgery. The best part is there is enough flexibility to have a life outside of work, while earning a great salary.

Upon completion of my three-year surgical residency in Detroit, I plan on returning to practice in Minnesota, hopefully as part of a multi-specialty group/orthopedic firm. I also plan on being involved in teaching clinical aspects of podiatry as part of a residency program as an attending podiatric physician.

B: What things have changed for you since you've left Stout?

D: As far as changes, most occurred during transition in my first year of school: learning to manage course loads (30 credit hour semesters) with maintaining a healthy lifestyle with exercise, nutrition and social activities.

I have since gotten married (Feb '06), and we have adopted two retired racing greyhounds,

which has led to active involvement in the "greyhounds-only adoption and rescue" organization in Northeastern Illinois/Southeastern Wisconsin.

B: How has this affected your goals/career path/immediate future?

D: Anyone considering medical school, regardless of specialty - just like anything: fully understand the commitment you are making, and be in it for the right reasons, as you basically agree to put life on hold until education is complete because of the demands placed on you as a student! However, the rewards are endless.

B: What do you miss most about Stout? Be honest!

D: The people, food and traffic! You have no idea how great the environment is at Stout until you throw yourself into Chicago - overall people are always in a hurry, not quite as friendly and a 20 mile drive takes an hour – on a good day!

B: What would you do differently, looking back on your time at Stout?

D: Absolutely nothing! I took advantage of as many opportunities as I could—athletics, work, research, community involvement and socializing. Looking back, it was a blast! Also, I felt just as prepared as everyone sitting next to me in my first years of class, and am now nearly done with 4 years in podiatric medical school without ever feeling like I was in over my head.

B: Where do you see yourself in 5, 10, 20 years from now?

D: Good question! I'm not so sure, but with podiatry I have the freedom to work anywhere, and to have a family. Five years from now I hope to be employed in an orthopedic firm, and still be happily married with kids. Ten years I hope to be secure in my career, happy with my family. Twenty years from now I plan to continue working PT and start a greyhound rescue/adoption program with my husband.

Bomar's Corner



Welcome to our second edition of WISci. As always, the campus is a buzz of activity, and the Applied Science program is in the middle of it. New faculty, a new program, a new college and a new building have kept everyone busy during the last semester.

The face of science is rapidly changing on campus. New faculty hires include Dr. Maleka Hashmi, a cardiovascular physiologist, and Dr. Michael Bessert, a fish ecologist. You'll find Dr. Hashmi's biography later in this issue, with Dr. Bessert's to follow in the next issue. Two faculty will start next fall, Dr. Marlann Patterson, a physicist specializing in Nanomagnetism, and Dr. Mandy Little, a plant ecologist with a background in Geographic Information Systems (GIS). Drs. Patterson and Little replace Dr. Foley in Physics and Dr. Parejko in Biology, respectively; both have recently retired. This summer both Patterson and Little will be engaged with the students on campus. Dr. Patterson will be taking Aaron Coch-

ran (Junior, Nanoscience) to the University of Nebraska and Dr. Little will be working on curriculum development and with a science-focused Upward Bound program on campus.

Three more faculty represent new positions on campus, supporting the growing emphasis on biotechnology and nanoscience at UW-Stout and the region. These positions are directly tied to the "Grow Wisconsin" initiative, so remember to thank your state legislator next time you see one.

In the Fall of 2008, the program will add a new concentration in Environmental Science. This will be a great program that not only emphasizes the natural sciences, but also requires students to take courses in GIS and Sustainability. Moreover, this program links the sciences with geography and engineering, really promoting interdisciplinary experiences for students.

The Applied Science program with the three science departments will join the newly-formed College of Science, Technology, Engineering and Mathematics (STEM). The new college includes Math and Computer Science, Biology, Chemistry, Physics, Construction, Apparel Design and Communications, Engineering and Technology departments. There is a campus committee currently in the process of hiring a new dean to direct the STEM College; this person should be on board by July 1, 2008.

Ground breaking for the new building is scheduled for June 17, 2008. Please come and join the festivities if you are in the area. All being well with the construction, we will have another celebration for the grand opening of the fully operational new building in September 2010.

Leaving no technological facility behind, the program now has two Facebook sites. The Stout Science Club now has a presence on Facebook, with another one for the Applied Science program. Check it out and feel welcome to join, post articles/photos/messages to stay connected to the program, fellow alumni, students and faculty currently in the program.

To wrap the entire year up we had our first ever senior banquet at Jake's Supper Club on May 1st 2008. This was an awesome event, attended by about 45 students and faculty, as well as one alumnus, Dr. Desiree Nardini (Scholl) and her husband Dr. Alex Scholl. The Applied Science program is strong because of the great things Alumni are doing. We will deliver ten more for the working world on May 10th, our largest graduating class ever. Feel free to drop us a line, drop by campus, or even just call to check in to tell us what you are doing.

Charles Bomar
Applied Science Program Director
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Maleka Hashmi Joins APSC Crew— The Next British Invasion

Dr. Maleka Hashmi, a cardiovascular physiologist, is one of the newest members of the Applied Science faculty, having joined the program in January. Dr. Hashmi comes to us from the University of Georgia where she earned a PhD in Physiology. Following her PhD, Dr. Hashmi was a Post-Doctoral Fellow at the University of Wisconsin-Madison.

Dr. Hashmi's research interests focus on the role of the endothelium in the pathology of hypertension and she is especially interested in S-nitrosothiols and how their mobilization within endothelial cells or lack thereof may contribute to hypertension. These investigations typically use a variety of lab techniques such as histology, ultrastructural microscopy, molecular biology, in vivo and in vitro

techniques.

"I have just recently moved to the Eau Claire area and although I loved



the snow, I am not sorry to see it disappear! I have to say that I never lived in a place that's so cold, but as they say, what doesn't kill you only makes you stronger; the problem is, not everyone makes it into the latter category so here's hoping!"

"I love to cook Indian food while watching my favorite sitcoms such as Frasier and Seinfeld as well as the British classics, like Fawlty Towers, the Vicar of Dibley and BlackAdder—these help me keep my British sense of humor sharp and witty!! Yes, I'm from England but I've lived across the Pond for nearly ten years now. I can't do an American accent to save my life but I did manage to learn a Southern phrase in a Southern accent while I was living in Georgia, "Well kind sir, I am a Southern Belle". That's a party trick of mine so don't ask me to do it at work!!"

Dr. Hashmi is already having a positive impact on her students and the Applied Science program and we hope she will be with us for many years to come.

Jessica VanDerWerff– From Water Bottles to Watersheds

The Applied Science program presents students with innumerable opportunities and generous faculty support. As a Junior in the program I have been fortunate enough to have had some meaningful experiences.

Last spring I wrote a proposal for and received a \$7,000 research grant from the UW-System Solid Waste Research Program. My project was designed to determine if an educational recycling workshop would increase recycling rates among college freshmen. After a semester of data collection and statistics analysis the experiment turned out to be a huge success.

This project enabled me to gain an experience that most students don't get until they reach graduate school. I worked one on one with an advisor to gain sponsorship and complete a powerful research project. I learned how to network with



professionals and effectively communicate through writing technical documents. The research project also allowed me to utilize many skills I learned in the classroom such

as designing an experiment using the scientific method, analyzing data, and effectively communicating my results through presentations.

Previous to my research grant position I was known in the Stout science community through classes, Science Club events, Stout Research Day, tutoring, and assistant teaching. Making connections through these experiences had an immense impact on my future successes.

I am currently working at the ERDC Eau Galle Aquatic Ecology Laboratory which is a US Army Corps of Engineers research and development command. My duties include preparing samples and equipment

for projects, processing samples for analysis, and general lab maintenance. Through this meaningful experience I have fine tuned my lab technique and realized the workings of a genuine lab setting.

I was recently offered an Environmental Water Resource Intern position with the Prairie Island Indian Community. My summer will be spent hiking through the woods and floating in a canoe collecting water quality and biological data from area lakes, rivers, and wetlands. What a great summer job right? I will also be evaluating habitat, preparing area maps with GIS and GPS software, and performing analytical procedures in the lab. I was confident going into the interview a week before because I had a wealth of knowledge and unique experiences under my belt. My coursework had prepared me for a professional experience by using what we had learned in the classroom getting me involved in real field work.

Overall, my experiences have played an important role in my academic, personal, and professional progress. The best advice I can give you is to get to know your professors and classmates. They are a great resource.

Alumni Update- Eric Weiss

Eric Weiss (December 2003) is currently working as an Associate Radiology Account Manager at GE Healthcare, having started his career with GE in March 2006 as an Inside Sales Representative. In December 2006 he was selected as the first to take on the role of an Associate Radiology Account Manager. In this position, Eric works with rural community hospitals in the Northwestern and Rocky Mountain regions of the US in the purchasing of diagnostic imaging equipment. Prior to GE, Eric spent four years in the Pharmaceutical Sales profession working for Aero Pharmaceuticals, and Takeda Pharmaceuticals.

"I am very proud of the fact that I



was the first graduate from the Applied Science program. The Applied Science program gave me a strong work ethic, ability to problem solve, and the joy of continuous learning. I am a firm believer in the hands-on

approach available at UW-Stout. The fact that I can remember a majority of my professors by their first names shows the individual attention that is given to each and every student. I have also had the pleasure of coming back to

Stout to present different aspects of my post-college life to a few classes in the program."

Eric has been married for nearly six years to Rachel and they have a two-year-old son named Gavin and a brand

new baby boy named Asher. Asher made his worldly debut at a healthy 7lbs 9.7 oz. and a full 20 inches long. Rachel is also a Stout graduate and is a kindergarten teacher when not busy with new babies. The Weiss's currently reside in southeastern WI and hope to stay in there for many years to come.



UW-STOUT-Applied Science Alumni

The goal of this newsletter is to keep alumni in touch with the Applied Science program. Please update your contact information so that we can keep in touch with you in upcoming newsletters. Share this with your other Applied Science alumni that you are in contact with, we would love to keep them informed also. Please mail these contacts to the address on the below or send your updated information at apsc@uwstout.edu. We would love to hear from you!

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