

allied sciences

THE COLLEGE OF PHARMACY, NURSING, & ALLIED SCIENCES

news for you

SUMMER '12



Alumni working in N.D. oil patch

Alumna finds career fit ④

Advisory group begins work ⑤

Alumni shine at U of M, Fairview ⑨

Healthcare mirrors North Dakota oil industry boom for alumni

Rheanda Jangula tells people not to believe everything they hear about the expansion of the oil industry in western North Dakota. The Williston, N.D., native experienced the area both before and after the boom began.

"It's crazy how quickly things get exaggerated," she said. "It's obviously not the same Williston it was when I went to high school and grew up, but we can't help that we live on millions of dollars worth of oil. We need to take the change for the better and be able to adapt."

Largely supported by its burgeoning oil and gas industry, North Dakota's economy leads the nation with 7.6 percent growth in 2011. A report released by the U.S. Bureau of Economic Analysis indicated the state's economy was avoiding the overall economic slowdown being felt by much of the rest of the country.

The rapid growth is creating opportunities in the industries supporting the oil industry, leading to jobs for NDSU graduates in the fields of medical laboratory science, radiologic science and respiratory care.

Jangula, BS '11, respiratory care, is a registered respiratory therapist at the rapidly growing Mercy Hospital in Williston. She came to NDSU as a track and field athlete ready to pursue her major after being diagnosed with asthma, a condition she shares with her mother and grandmother. "It just seemed like a great fit for me," she said. "I also love working with people."

Working with a wide variety of people at a community hospital, Jangula conducts electrocardiograms, electroencephalograms and all pulmonary treatments and procedures on in- and outpatients and in the emergency room. She also works with obstetrics for deliveries of high-risk infants.

In addition, many oil companies require workers to be fitted with respirators because they deal with dangerous chemicals. Jangula conducts pulmonary function tests on the workers to make sure they have adequate lung capacity and are physically

eligible to do the work. "My education at NDSU has prepared me more than I could ever imagine," Jangula said. "When I was in my internship we learned everything you could think of a respiratory therapist would do. It not only helped me in the hospital world, but in the real world."

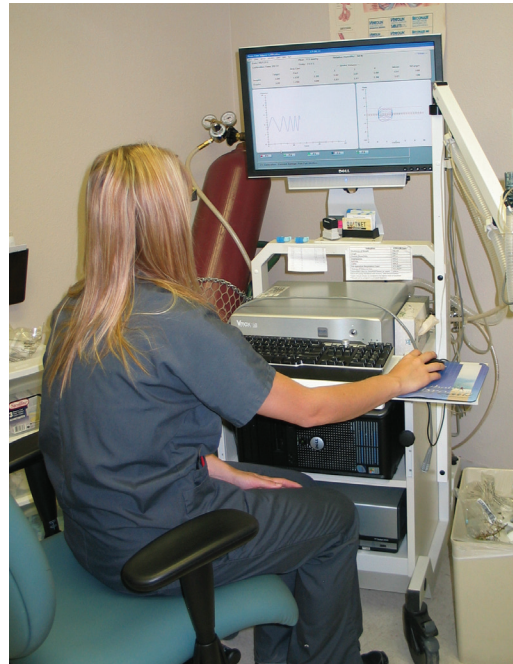
Jangula returned to Williston to be closer to family and for the job opportunities, which continue to increase with patient demands. "The hospital is in serious need of every kind of healthcare worker we can get," she said. "With the huge increase in people around the area, we are getting busier and busier."

The increased workload and patient demand are leading to opportunities in the southwest part of the state. St. Joseph's Hospital and Health Center in Dickinson, N.D., is considering building a new facility to handle the demand in its eight-county area. Crystal Robinson (pictured on the cover) has been the hospital's laboratory and respiratory care director for the past two years. The Hettinger, N.D., native joined the hospital as a generalist after graduating from NDSU in 2007 with a bachelor's degree in microbiology and clinical laboratory science.

Upon graduation, Robinson and her husband moved to Dickinson for the job opportunities that were beginning to spring up thanks to the oil boom. Since then, the hospital's outpatient base has grown considerably, she said. Emergency care, prenatal and obstetrics care have seen notable increases in patient demand. The hospital opened a walk-in clinic to help alleviate pressure on the emergency room.

Robinson's role at the hospital has increased as well. When the previous respiratory care director stepped down, Robinson added the role to her existing position as director of the medical laboratory. She now oversees daily operations, finances and staff of both departments. Demands are many and the daily requirements frequently change. "Our workload has increased with the influx of people and new practices being added," Robinson said. "We have brought new tests on board to meet the needs of the community."

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Rheanda Jangula

The hospital lab offers services including anatomical pathology, blood bank, chemistry, coagulation, cytology, hematology, immunology, microbiology and urinalysis. "Not only are our services available to the patients in the hospital, but our outpatient services are available to the area clinics and other organizations throughout the community," Robinson said.

Outpatient services also include drug screen collection for oil-field workers. "Another service that we provide is internships for students, allowing them to work side by side with our medical technologists to train them in interpreting results and instill the knowledge of proper clinical procedures to secure the future of clinical laboratory science," Robinson said.

NDSU student Kayla Anderson is gearing up to work in the oil field by completing a 24-month internship at Rapid City Regional Hospital in Rapid City, S.D. A senior majoring in radiologic sciences and Williston native, she plans to return to her hometown upon graduation. She said the city and area have changed significantly since going to NDSU. "I think my biggest challenge is going to be comparing what the town was to what it

currently is with long lines and traffic," Anderson said. "However, I think the opportunities are going to outweigh all of that. The town is growing, providing more work opportunities than I would have had before."

In her internship, Anderson works clinical hours performing X-rays in the hospital and takes two afternoon classes per week.

To get a taste of the pressures of the oil field, Anderson also volunteered at the annual Sturgis Motorcycle Rally in Sturgis, S.D. "It gave me experiences working with a variety of different people and trauma accidents," she said. "Those aspects of the rally are similar to Williston. There has been an increase of people moving there and the type of work they are doing can lead to trauma accidents."

Anderson pursued radiologic sciences since it offered a good base for many career paths. She credits her experience at NDSU for pointing her in the right direction. "My advisers were so supportive and helped in anyway they could to make sure you go to an internship," Anderson said. "They warned me it would be challenging, but they set me up to succeed."

A message from the director of allied sciences

I hope this issue of the allied sciences newsletter finds you well. It always amazes me how quickly the year passes. Since our last issue, news at NDSU has included an NCAA Division I football championship title, approval of a new model for student success, developing academic roadmaps to build and strengthen academic programs and participating in a nationwide project as part of a study of the competencies a student should possess at each degree level.

Preparing a newsletter helps me to especially appreciate student and alumni accomplishments and changes in the programs and professions. Thanks to those of you who had expressed interest in serving on a new allied sciences advisory board, we were able to get the board going this spring. Our first meeting provided the foundation for future discussions about how the advisory board can become more involved in connecting with alumni and continually ensuring the quality of our programs.

Articles in this newsletter will give you a glimpse of how students and staff are engaged in community outreach activities, alumni are advancing their careers, impacting future allied sciences professionals and working in some unique settings. You will find there has been a change in faces in our department, too. Kris Errett became program assistant following Rita Prunty's retirement in January.

I hope you enjoy reading the newsletter. If you have comments, stories to share or suggestions for future issues, please contact me at polly.olson@ndsu.edu or Sara Wald at sara.wald@ndsu.edu.

Thank you and have a great summer and year.



Polly Olson

QUESTIONS?

Sara Wald, Director of Advancement
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Respiratory therapy background helps alumna reach career goal

Even as a child, Dacia (Wisnewski) Engberg characterized herself as motherly. The oldest of three siblings, she naturally developed her caregiving talents through frequently babysitting and life-guarding at the local pool.

This nurturing trait led the Lidgerwood, N.D., native to discover her career calling early. By high school, she set her sights on becoming a physician assistant. However, the path to her professional destination wasn't as clear.

During her freshman year at NDSU, Engberg first declared sports medicine and then zoology as majors, but couldn't find the right fit. Thanks to a friend and NDSU resident assistant, Engberg learned about the respiratory therapy program. It proved to be the perfect precursor to her desired profession.

"I fell into it," Engberg said. "But I couldn't have picked a better background. My experience as a respiratory therapist was invaluable. It was a great steppingstone."

Engberg graduated from NDSU in December 2002 with a bachelor's degree in respiratory care. After working four years as a full-time respiratory therapist, she was accepted to physician assistant school at the University of North Dakota, Grand Forks, in 2006. During the two-year graduate program, she continued working part time as a respiratory therapist.

That experience as a respiratory therapist in the medical setting provided exceptional preparation for her current career, Engberg said. She worked with children and adults, in clinics and hospitals, with chronic and acute conditions and with critical and stable situations. She assisted people on ventilators and patients with asthma, cystic fibrosis and chronic obstructive pulmonary disease. She administered breathing medications, operated ventilators, maintained airway clearance, helped with intubations and responded to code situations. She also oversaw proper medicine usage and patient education.

"I loved the versatility of the respiratory background. The main thing I gained was experience in patient care and in all different settings and areas. It was very helpful. It made me more comfortable doing a patient exam, because I saw patients every day in the hospital and took care of them whether it was in the ICU or emergency department. I was introduced to a lot," Engberg said. "It was a wonderful experience and great preparation. It absolutely helped me so much."

Engberg graduated from UND in 2008 with a Master of Science in Physician Assistant Studies. She worked as a physician assistant in the emergency department at Sanford in Fargo until November 2011, when she joined Internal Medicine Associates in Fargo.

Today, Engberg continues to work with diverse patients, settings and conditions, but her role is more generalized. "I can do pretty much what a physician does. There are certain procedures we aren't trained to do, but for the most part, I function as a provider," Engberg said. "If anyone needed to establish care with somebody, I take on new patients and have my own patients in practice within the group."

In the clinic setting, some of her duties include seeing and assessing patients for an array of visits – from more acute care and follow-ups, to yearly physical exams. She also orders labs and imaging studies as needed, prescribes medications and does minor procedures in the office. She also provides patient education, especially for patients with respiratory problems.



While Engberg loved her time as a respiratory therapist, she always held onto her dream of becoming a physician assistant.

"Respiratory therapy provided a wonderful background. However, I wanted to learn more about other areas as well. I always found myself asking physicians and nurses questions. I've just always been curious about other aspects of medical care and treatment," she said.

Engberg encourages other students interested in pursuing physician assistant school or medical school to consider allied sciences programs and working in a medical setting prior to going back to graduate school. "I think it is definitely the way to go. You can't replace that experience you get. You learn so much. It helps so much in the future and in the long run."

Allied Sciences Advisory Board holds first meeting

The new Allied Sciences Advisory Board has begun important work to ensure the continued excellence of allied sciences programs at NDSU. The group's initial meeting was held March 23.

Among their duties, members will assist the department in building and maintaining an advancement program, recommend strategies to engage alumni and friends, participate in annual review of program goals and outcomes, help the department identify resources needed to deliver high quality programs, identify current trends and assist in the development of interprofessional collaborations.

"I am excited about our new advisory board for allied sciences. Now, pharmacy, nursing and allied sciences all have their own advisory boards assisting them in fulfilling their mission, goals and priorities for the programs," said Charles Peterson, dean of the College of Pharmacy, Nursing, and Allied Sciences. "Our new Allied Sciences Advisory Board will be a tremendous resource to our program director in ensuring our program continues to excel and meet the needs of our students. I am excited about connecting these three advisory boards in some way in the future to work on advancing interprofessional education involving all three academic programs."

The members of the Allied Sciences Advisory Board include NDSU alumni Joe Bryce, Eryn Miller, Keith Schweigert, Jill Urke, Robyn Urlacher and Lisa McBroom.

Bryce is MRI department supervisor at Sanford Medical Center, Fargo. A 2006 radiologic sciences graduate, he worked in the radiology department at Sanford for three-and-one-half years, and then joined the MRI department. He said he was interested in the advisory board because he wants to "take a role in the education of our future professionals." He and his wife and two children live in West Fargo.

Miller, a 2007 respiratory care graduate, has worked as a registered respiratory therapist at the University of Minnesota Medical Center-Fairview and University of Minnesota Amplatz Children's Hospital and is pursuing graduate studies in education. She and her husband, Brent, live in Minnetonka, Minn.

Schweigert is process improvement coordinator for Sanford Health in Fargo. A 1980 graduate in medical technology and chemistry, he previously worked for MeritCare Health System, United Blood Services and Oakes, N.D., Community Hospital. Active in the community, Schweigert has been a board member for the Fargo-Moorhead

Community Theatre and he volunteers with the Fargo Marathon, Children's Miracle Network and Cully's Kids. He said he has "a continuing interest in student development and advancement."

Urke graduated from NDSU in 1999, majoring in clinical laboratory science. She is the laboratory director at the Douglas County Hospital in Alexandria, Minn. "I believe I wouldn't be where I am today without the excellent education I received from NDSU," Urke said. "I'm excited to be a part of the Allied Sciences Advisory Board and the potential growth of the programs." Urke previously worked at Melrose, Minn., Hospital, MeritCare Reproductive Medicine in Fargo, Heartland Hospital in Fargo and Children's Hospital in Omaha, Neb. She lives in Alexandria with her husband, Brent, and daughters Greta and Grace.

Urlacher is a 1998 respiratory care graduate who is director of the NDSU/Sanford Respiratory Care Program. She was a staff respiratory therapist at MeritCare until 2002, and has been involved in respiratory care education since then. She lives in West Fargo with her husband, Keith, and their two children, Mason and Karli.

McBroom works in the Cardiac Catheterization Lab at Sanford Health in Fargo. She completed her program internship at the St. Cloud, Minn., Hospital, and previously was a general registered radiologic technologist in Bismarck, N.D. A 2007 graduate in radiologic sciences, she lives in Fargo.

The board is tentatively scheduled to hold its next meeting Friday, Oct. 5, during NDSU's 2012 Homecoming Week.



Allied Sciences Advisory Board members are (L to R) Joe Bryce, Eryn Miller, Keith Schweigert, Jill Urke, Robyn Urlacher and Lisa McBroom.

Langenwalter scholarship provides opportunity

Mary Jo Langenwalter believed in helping others, and her legacy now gives important opportunities to medical lab students.

The Mary Jo Langenwalter Clinical Lab Science Scholarship annually provides \$500 scholarships for clinical/medical lab students based on financial need. The scholarship, which began in 2001, was originally called the Clinical Laboratory Science Scholarship, but after Mary Jo's death in 2002, it was renamed to honor both Langenwalter and her family's generous memorial contribution.

A native of Wahpeton, N.D., Langenwalter was a clinical laboratory scientist who worked for MeritCare (now named Sanford Health); first with MeritCare's The Neuropsychiatric Institute, then at the MeritCare main campus lab and later with MeritCare Transplant Services. She was active in the laboratory science field and with many civic and charitable organizations. Langenwalter strongly valued education, and after her unexpected death, her husband and family members, as well as her co-workers helped to expand the scholarship to memorialize her ideals.

"Originally, we only had enough money for one \$500 scholarship per year but donations have been so generous that we are now giving four per year," said Sam Matthey, former program director of the Sanford Health Program for Medical Laboratory Science-Fargo. "Much of the fourth year of this degree is spent in the actual laboratory training at the bench and we have our own program for this training. We are managing to avoid the national shortage of CLS/MLS/med techs by training and hiring our own students."

According to Matthey, the Sanford Health Program for Medical Laboratory Science-Fargo internship program is nationally accredited and has been in existence for more than 55 years.

"I am confident the Sanford Health Program for Medical Laboratory Science-Fargo is second to none in turning dreams into realities – turning college students into capable, professional, competent medical laboratory scientists," said Alice Hawley, education coordinator.

Students accepted into the Sanford MLS-Fargo program are eligible to apply for the scholarship through the Sanford Foundation.

Additional information about the program is available at www.sanfordhealth.org/Careers/EducationalOpportunities/Internships/ClinicalLabFargo.

If you are interested in funding a scholarship or contributing to the Allied Sciences Alumni and Friends Scholarship, please contact Sara Wald, director of advancement, 701-231-6461 or sara.wald@ndsu.edu.

Allied Sciences Alumni and Friends Scholarship

A \$250 scholarship awarded on the basis of scholarship, merit and need. Funding for the scholarship is provided by annual contributions from alumni and friends.



Nicollette Desautel, Grafton, N.D.

CAPP Scholarship

A \$500 award to an allied sciences intern based on Commitment to their major, putting Advice to Practice, and Perseverance. The award is funded by Polly Olson, recipient of the 2009 Dean's Award for Outstanding Advising in the college.



Rebecca Ellingworth, New York Mills, Minn.

Dean's Scholarship – Allied Sciences

Three \$1,000 scholarships awarded by the Office of the Dean to allied sciences students based on high scholastic achievement, extracurricular involvement and demonstrated leadership within the college.



Tammy Kippley, St. Cloud, Minn.
Tania Peters, West Fargo, N.D.
Emily Tappainer, Apple Valley, Minn.

Sanford Health Foundation – Mary Jo Langenwalter CLS Scholarship

Three \$500 awards presented to students accepted into the Sanford School of Clinical Laboratory Science. The award is to be used toward tuition.



Katherine Grosz, Fargo, N.D.
Brian Wittkop, Moorhead, Minn.
Kali Weinand, Fargo, N.D.

Michael Sologuk Memorial Scholarship

A \$375 scholarship awarded to a junior or senior respiratory care major accepted as an intern at Sanford Medical Center. One criterion for selection of the recipient is an essay pertaining to cystic fibrosis.



Emily Tappainer, Apple Valley, Minn.

NDSU interns receive honors

In addition to scholarships awarded at the annual college scholarship ceremony, the following interns enrolled in the professional phase of the allied sciences programs earned special recognition within their hospital program or from professional societies.

Kayla Anderson placed first out of 39 exhibits in the student scientific display competition at the 2012 South Dakota Society of Radiologic Technologists Annual Conference with her display on Sirenomelia, also known as Mermaid Syndrome. Anderson completes the Rapid City, S.D., Regional Hospital program in June and will return to Williston, N.D., for employment.

Jenna Bosak was selected for the 2012 American Society of Radiologic Technologists (ASRT) Student Leadership Development Program. Selected students earn a trip to attend the ASRT Annual Governance and House of Delegates Meeting in Las Vegas.

Ben Davis was a 2011 recipient. Davis and Bosak are radiologic science interns at Sanford, Sioux Falls, S.D.

Dean Derhaag received a \$7,500 Fairview sponsorship. He will be working as a medical laboratory scientist in the University of Minnesota Medical Center's acute care lab.

Emma Durkee placed first in the Essay and Presentation Contest at the University of Iowa in April. She graduates from St. Cloud's Diagnostic Imaging program this summer.

Fairview Hospital interns **Tammy Kippley** and **Rebecca Ystebo** received the Elizabeth Panning Scholarship, and **Kassondra Smaaladen** received the NDSU Classified Staff Scholarship awarded by the NDSU Staff Senate. Kippley and Smaaladen were May 2012

graduates. Kippley will attend the University of New England's physician assistant program this fall. Smaaladen has taken a position with the American Red Cross blood bank in Omaha, Neb.

Two Avera McKennan radiologic science interns, **Alyssa Klein** and **Tiffany Wiger**, received honors; Klein for the SDSRT Student Mentor and Siouxland Society of Radiologic Technologists \$500 scholarship award, Wiger was recognized for third place in the SDSRT scientific paper presentation.



The student team of Jason Hoots, John Schwab and Nicolas Gangl won the first NDSRC "Minute to Win It" competition.

Kevin Pham and **Laura Schleichert** will receive the American Society for Clinical Pathology National Student Honor Award. They will complete MLS internships this summer at Mercy, Sioux City, Iowa; and Mercy, Des Moines, Iowa, respectively.

NDSU/Sanford RC intern awards presented at the Fall 2011 graduation ceremony were: Intern of the Year – **Andrea Rader**; Lambda Beta – **Andrea Rader** and **Emily Tappainer**; Clinical Performer of the Year – **Andrea Rader** and **Brianna Strube**.

Current interns attended the 2012 North Dakota Society for Respiratory Care annual conference in Bismarck.



Sara Wald

A message from the director of advancement

I hope you have enjoyed the annual newsletter from the Allied Sciences department. The department has been growing and strengthening every year. We are very proud of the students who graduate and represent NDSU so well in the work force. Student scholarships are one of our largest needs in the department. Last year, we distributed \$6,375 in scholarship support among 12 students. Currently, we are providing scholarships to only 12 percent of students enrolled in internships.

With the help of our advisory board, we are hoping to grow alumni support and scholarship contributions. You can help by

making a gift to the Development Foundation and designating it directly for the Department of Allied Sciences. There are also several scholarship funds set up, including an Allied Sciences Alumni and Friends Scholarship Fund. You can make contributions through the college website or by mailing a check to the address on the back cover of this newsletter. We hope you consider making a donation to these wonderful students.

Thank you,

Sara Wald
Director of Advancement
(701) 231-6461
sara.wald@ndsu.edu

Students of Allied Sciences has 'great year'

In its third year, the Students of Allied Sciences organization (SAS) built on past involvement and developed a new tradition to carry into the future. The group reports it continues to grow each year, and now has 27 dues-paying members.

Once again, the club partnered with the Ronald McDonald House in Fargo for service projects this year. According to Beth Burns, public relations representative and volunteer coordinator, "We had a great time helping them with yard work in the fall, making treats for Halloween, helping with Family Fun Day and assisting with the Sweetheart Ball Auction."

Burns said club members also continued the tradition of participating in a healthcare walk this year. Seventeen club members and friends took part in the March of Dimes March for Babies in April.

At the club's first end-of-the-year banquet, next year's officers were announced, and two current officers received the Students

of Allied Sciences Effort and Engagement Award (SASEE). Senior Tacy Masters from Mankato, Minn., was nominated by club members for her reliability and positive attitude in her work as the club president, while Burns, a junior from Vadnais Heights, Minn.,



Left to right: Tacy Masters and Beth Burns are the first Students of Allied Sciences Effort and Engagement Award winners.

was recognized for displaying effort and initiative in her dual role as public relations officer and volunteer coordinator.

"We have had a great year," Burns said. "We hope SAS continues to thrive and grow as a club."

'Battle of the Cents-es' penny drive raises more than \$1,400

A highly successful second annual penny war between two student groups raised more than \$1,400 for two charities.

For five days, Feb. 6-10, the Pharmacy, Nursing, and Allied Sciences Ambassadors collected money for Cullen Children's Foundation, while the College of Engineering and Architecture Ambassadors raised funds for the Minot State University Flood Families Fund. In the "Battle of the Cents-es" competition, coins were considered positive scores, while cash bills were counted against an organization's numbers.

When the dust cleared, the Engineering and Architecture Ambassadors defeated the Pharmacy, Nursing, and Allied Sciences Ambassadors.

Minot State University Flood Families Fund will receive \$755.11 and Cullen Children's Foundation will receive \$695.95. This year's combined total of \$1,451.06 is nearly \$200 more than last year's combined total.

"It is remarkable to see a combined total of over \$1,400 raised for the two charities. The rewards from this friendly competition are that the student ambassadors from the two colleges get to interact with each other while making a difference for those in need," said Joel Hanson, director of the Student Support Center in the College of Engineering and Architecture. "Thank you to the entire campus community for making this year's penny war a success."

Dana Davis, director of recruitment for the College of Pharmacy, Nursing, and Allied Sciences, reflected a similar feeling. "It really is neat to see how quickly pocket change can add up and in turn make a great impact. Both of the charities benefited, but so did our students," Davis said. "The Battle of the Cents-es has become a fun tradition and is something that I hope stands out when our students look back on their college experience at NDSU."



NDSU President Dean L. Bresciani makes a contribution to the "Battle of the Cents-es" campaign. From left to right, Kevin Young, civil engineering; Sam Ewen, electrical engineering; President Bresciani; and Kristen Weiss, radiologic sciences.

Radiologic sciences alumni shine at U of M, Fairview program

It is another strong indication the NDSU allied sciences program is producing high-quality graduates.

At the respected University of Minnesota Medical Center, Fairview Radiation Therapy Program, six of the seven participants in 2011-12 were NDSU radiologic sciences alumni.

"We value the baccalaureate degree that these students have when they are admitted into our program because it validates their commitment to education," said program director Patricia Fountinelle. "They have already taken the pre-professional courses that we require such as college physics, algebra and trigonometry, ethics and others."

Applicants to the program also must have a 3.0 grade-point average or higher and complete an essay.

When asked about the quality of NDSU graduates, Fountinelle said, "Awesome! The NDSU applicants/graduates have a great track record as radiation therapy students in our program. They are well

rounded, have some clinical patient care experience due to their radiology instruction/clinical training and demonstrate qualities necessary to become competent radiation therapists."

The program at the University of Minnesota, Fairview, is accredited by the Joint Review Committee on Education in Radiologic Technology. It is a full-time, 12-month certificate program where students rotate every four to eight weeks to about nine hospitals or radiation therapy department settings throughout the Twin Cities. They experience and adapt to different treatment machines and treatment techniques.



Back row (L to R): Carter Ellenson, Hannah Selvedt, Bailey Flach and Holli Grade; Front row (L to R): Kayla Braaten and Alex Daly

Expect the close connection between NDSU and the UMMC, Fairview, program to continue in the future. "I have been the program director here since

2007, and this radiation therapy program has always had applicants from NDSU," Fountinelle said. "Some of our 2012 class members are from NDSU."

Summer camp introduces youth to health care careers

It's a summer camp with a twist; a fascinating and fun way for young people to question, explore and broaden their knowledge about health care. The highly successful Camp Health Care was presented June 20-23, 2011.

Area youth in grades four through six filled the hallways of Sudro Hall to find answers to queries like: What is your blood made of? What is a spirometer used for? How do medical personnel see inside a patient's body?

Throughout the camp, the young participants met practitioners from the community and took part in informative hands-on experiments and activities. One full day of the first camp focused on the allied sciences career areas of medical laboratory science, radiologic science and respiratory care.



"The youth who attend Camp Health Care have a unique opportunity to experience health careers from a practitioner's viewpoint rather than a patient's perspective. Not only do they get to meet and interact with practitioners, they participate in a wide variety of activities, many of which our college students practice as part of their educational experience," said camp director Dana Davis, director of recruitment for the College of Pharmacy, Nursing, and Allied Sciences. "Camp Health Care shows students how they can apply science and math through careers that improve the lives of others. It opens doors to a whole new realm of possibilities for these students and the paths they choose to pursue in the future."

For example, as they learned about medical laboratory science, campers participated in an online simulation of a blood

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transfusion with the help of college faculty, staff and students. They determined the blood type of their “patient” and identified compatible donor blood. Many of the young technologists thoroughly enjoyed the simulation, repeating it numerous times to see all of the different possible outcomes. If you’d like to try the simulation yourself, visit www.nobelprize.org/educational/medicine/bloodtypinggame.

Students also spent time learning about NDSU’s radiologic sciences program and careers in radiography. They were taught how X-rays are made and they viewed a series of unusual X-rays.

In addition, Angela McAdams, clinical coordinator for the NDSU/Sanford Respiratory Care program came to campus with a group of current respiratory care interns, who taught campers about respiratory therapy devices such as the pulmonary hygiene vest and pulse oximeter. Campers also practiced intubation on a mannequin and learned the dangers of smoking.

During the camp, students heard how researchers often share research findings through poster presentations, and their experience culminated with Poster Presentation Day. Campers created posters showcasing a health care career or topic they found

interesting. Parents, faculty and staff were invited to view the posters and help the students celebrate their work.

“Camp Health Care was fun. We learned a lot and got to do some cool experiments. I learned about compounding medicine, intubation and health care research,” said 11-year-old Carson Kitch of Moorhead who participated in the 2011 camp. “We learned about the effects of smoking on lungs – my poster presentation was about the dangers of smoking and how bad it is for our bodies.”

The camp’s allied sciences day also provided a memorable opportunity for NDSU interns. Emily Tappainer, BS ’11, respiratory care, and a registered respiratory therapist at Sanford Health in Fargo, enjoyed the hands-on nature of the experience. “It might have looked like we were just playing, but we were learning as well,” Tappainer explained. “We tried to have something for the kids to touch at each station so we could talk to them while their hands were busy.”

Camp Health Care clearly is piquing the curiosity of area youth, and, hopefully, building their interest in a career in health care.

NDSU student receives Pediatric Home Service Scholarship

Lalita Jyoti is a firm believer in pursuing one’s dreams. Jyoti, recipient of the \$1,000 Pediatric Home Service Respiratory Therapy Scholarship, says the recognition is helping her move closer to her goals.

Jyoti is enrolled in the Sanford Health Medical Center Respiratory Care Program through NDSU, and she will graduate with her bachelor’s degree in respiratory therapy and health communication in December 2012.

“I can never describe in words of how thankful I feel receiving the scholarship,” said Jyoti. “The PHS Scholarship has not only given me the opportunity to keep pursuing my dreams, but making it a reality. It also is giving a little nudge. ‘Never give up, never hold back and never loose faith’ is the message I would like to mention to all students.”

Originally from Nepal, Jyoti came to Fargo when she was six years old because her father was pursuing his doctorate in entomology. After following him to Cornell University and Kansas State University, Jyoti returned to Fargo to finish high school and attend NDSU, like her four siblings.

“It has been an amazing experience attending NDSU. I can’t believe I graduate in December,” said Jyoti, who has been active in Student

Government, LeaderQuest, Multicultural Student Organization, and Golden Key International Honour Society. “I thought it was a perfect place to attend for my studies because everyone is welcoming and humble.”

This summer, she will attend her last block of classes for the respiratory care program, and will start her clinicals at Sanford Health in July.

Looking ahead, Jyoti plans a career in pediatric respiratory care and patient education. “I enjoy caring for people in the time of their greatest need,” she said, noting she is the youngest of five children in her family. “I have always enjoyed working with children and I am still a kid at heart. I also plan to specialize in education because I enjoy educating individuals about their health so they gain awareness and change their lifestyles, if need be.”

The Pediatric Home Service scholarship is intended for students or recent graduates who are enrolled in respiratory therapy programs. This year, there were 16 scholarship applications and three scholarships were awarded, ranging from \$500 to \$1,000. The

other recipients were Josh Oye, a student at Concordia College of St. Paul, and Xe Yang, a student at St. Catherine University.



L to R: Derek Hustvet (BS '95), director of respiratory service, PHS; Lalita Jyoti (BS '12); Robyn Urlacher (BS '98), program director, Sanford Respiratory Care Program

New program assistant named



Kris Errett

interact with members of the Allied Sciences Alumni Advisory Board and participate in department and college events, such as the Career Fair.

Errett first joined the NDSU staff in December 2005, and she worked in the civil engineering department and NDSU ROTC office prior to taking her new position.

The Department of Allied Sciences is welcoming a new staff member. Kris Errett is the new program assistant and her wide range of responsibilities makes her a valued member of the department team.

“I provide departmental support, maintain academic and student records, and meet with any prospective students and their parents before they are assigned an adviser,” explained Errett, who began her new duties Feb. 1. She also will

According to Errett, the upbeat attitude of students and their optimistic approach as they consider the future makes her job a pleasure.

“I really enjoy working with students,” she said. “They keep me on my toes, and they keep me current. Most of them are just starting out and they have the whole world at their fingertips. They are contemplating what they might do, so it is interesting and refreshing to visit with them.”

A native of Glasgow, Mont., Errett earned a bachelor’s degree in business from Montana State University.

“There is much that I like about this position, including the interaction and support both within our department and among the college,” Errett said. “I like helping students as they decide where to go with their studies. I have the chance to educate them about the opportunities we offer here.”

Errett has two children. Joe is senior at Fargo Davies High School and Beth is a junior at Park Christian High School in Moorhead.

Academic degree required for ARRT certification

An important change is coming for certification by the American Registry for Radiologic Technologists (ARRT).

Beginning Jan. 1, 2015, an academic degree will be necessary for primary certification. The requirement includes radiography, nuclear medicine technology and radiation therapy. Until 2015, graduates of non-degree granting programs also are eligible for ARRT certification; however, the new requirement will affect students accepted into radiologic sciences internships in 2013.

According to the ARRT website, the credentialing organization believes “the general education courses required for an academic degree will provide a firm foundation to support the evolving role of the technologist and the lifelong learning necessitated by the increasing rate of technological change. Quantitative and communication skills and understanding of human behavior that are acquired through

general education classes ... have value in continuing to shape professionalism and advancement of a Registered Technologist’s role in health care.”

Polly Olson, director of the Department of Allied Sciences, said, “Through its affiliation agreements, NDSU’s continued partnerships with its accredited hospital programs will enable the radiologic sciences program to continue to graduate well-qualified professionals eligible for ARRT certification.”

The ARRT board of directors will meet later this summer to address questions from programs and educational institutions, such as who verifies degree completion and what documentation is needed prior to implementing this new degree requirement.

For additional information about new certification requirements, visit www.arrt.org/Certification/Academic-Degree-Requirement.

www.ndsu.edu/pharmacy

allied sciences news for you

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