



Aberdeen Area Tribal
Chairmen's Health Board

SEPA SCIENCE EDUCATION
PARTNERSHIP AWARD
Supported by the National Center for Research Resources, a part of the National Institutes of Health

UNIVERSITY OF
Nebraska
Medical Center

BUILDING BRIDGES

JANUARY, 2013, NEWSLETTER

ISSUE 5

SANTEE and ROSEBUD SIOUX



Stephanie Moose
Volunteer Firefighter | Niobrara, NE

**LEARN MORE ABOUT OUR
PROGRAMS:**
Visit our website - www.unmc/

News Letter Committee
Maurice Godfrey
Kim Soper
Liliana Bronner
Shrawan (Sam) Kumar

Myles Jones

SANTEE and SISSETON-WAHPETON SIOUX
Clinical Services Administrator, Indian Health Services | Wausonka, NE



Words of Wisdom

"You are never too young or old to change your path. If you don't like the path before you, educate yourself and make a change."

Education:

Diploma, Santee Community School
B.S. in Education, Wayne State College
M.S. in Education and Government Service,
Northern Iowa University
Master's in Public Health,
University of Nebraska Medical Center

3 reasons why you like your job:

1. Challenge and learning and they are never the same
2. Large group of people from for the knowledge the Center has gained through my time
3. It has changed a great deal of lives to work for Indian Health Services

How did you become interested in this profession?

We went into a program in "Indian Country" and we have seen very interesting and diverse cultures with diverse people and the time they have taken to provide services. Additionally, we have worked for years with a diverse population of people from all over the world and we have learned a great deal from them.

What are some special skills you need for this job?

You need to be able to communicate and work with people from all over the world. You need to be able to work with people from all over the world and you need to be able to work with people from all over the world.



HAPPY NEW YEAR SEPA PARTNERS AND FRIENDS!

CONTRIBUTED BY DR. MAURICE GODFREY
PROFESSOR & PROGRAM DIRECTOR

This past year brought great excitement to the STEM programs with you, our SEPA partners, and we are eager and enthusiastic for more in 2013. The UNMC SEPA team spent a great deal of time on the road visiting our partner communities and delivering STEM activities. We enjoyed it as much as you students. We have held annual workshops covering topics in biology, chemistry, physics, forensic and earth sciences. Topics were chosen from the needs assessment survey that was distributed at the start of the UNMC-SEPA program. A new survey will be distributed to our partner schools. Please encourage your teachers and administrators to provide as much feedback as possible. The success of the program hinges on all the partners working together. The summer fun and science camp was again a great success as were two teacher workshops. The year ended with our first appearance at Oglala Lakota College's Science Exploratorium at the Lakota Nations Invitational (LNI). We are very excited to be partnering with Project Neuron of the University of Illinois to bring a Neuroscience Day in March 2013. We are also proud to be hosting the national SEPA conference in Omaha in May. We encourage all our partners to stay tuned for much more that will be offered in 2013. As always we ask for your input and suggestions. Happy New Science Year!!

SCIENCE EXPLORATION AT LNI — 2012

This year we participated in Oglala Lakota College's Science Exploratorium held at Rapid City from December 20-21, 2012. More than 500 students and parents visited our booth. It was a great success. The students and parents liked our live demonstration of DNA extraction from strawberry, light diffraction experiment, viewing different plant and animal specimen in high powered microscope, Augmented reality presentation, genetics of taste and hearing loss due to noise pollution. This year we are extremely thankful to Dr. Dave Wilson, Director of Indian Affairs and Dr. Julius Yellowhair, Optical Engineer, for their participation. Below, Dr. Wilson (left) demonstrating DNA extraction and Dr. Yellowhair explaining to student about wave particle duality of light.



This project was funded by the National Center for Research Resources (Grant#RR032178) and is currently supported by the Office of Research Infrastructure Programs (OD011071)



At the LNI — The top three pictures - demonstration of genetics of taste by Dr. Godfrey and Dr. Kumar. The bottom two pictures – on the left demonstration of DNA double helix by Dr. Dave Wilson, on the right diffraction and polarization of light presentation by Dr. Julius Yellowhair

PARTNER NEWS

BOARD MEETING: SEPA Advisory Board Meeting held on Friday, September 7, 2012 at Marina Inn in 385 E 4th St, South Sioux City, NE 68776

In attendance: 1. Kristine Earth 2. Randy Toothaker 3. Sandy Ostrand 4. Pam Bailey 5. Michele Blackbird 6. Julene Kay 7. Hank Miller 8. Andy Jameton 9. Moly Stuhlsatz 10. Lili Bronner 11. Bill Warzak 12. Sam Kumar 13. Linda Kendra 14. Teri Hartman 15. Carol Rempp 16. Jim Woodland 17. Kim Soper 18. Maurice Godfrey 19. By phone: - Roger Bordeaux 20. By phone—Favian Kennedy



Tiospa Zina Math and Science Family Night

“Hands on Fun for Everyone”, Wednesday, November 14th, 2012—5:00-7:00 PM

AT TIOSPA ZINA TRIBAL SCHOOL (HOME OF THE WAMBDI), | #2 TIOSPA ZINA DRIVE | AGENCY VILLAGE, SD 57262 |



Our SEPA team (Dr. Sam Kumar, Ms. Kim Soper, Mr. Alessandro Godfrey) lead by Dr. Maurice Godfrey were invited to be a part of Tiospa Zina Math and Science Family Night. It was a great evening of interacting with both students and parents around the math and science theme. More than 150 school children and their parents visited our booth. Alessandro Godfrey had a booth that featured Genetics of Senses-Jelly beans and taste, he was very popular with the younger crowd!!



Our SEPA program director Dr. Maurice Godfrey & Dr. Kumar were involved in science fun activities. 1. Dr. Godfrey shooting off a oxygen propelled rockets that got everyone’s attention. 2. Dr. Godfrey demonstrating fun science of augmented reality 3. Dr. Kumar describing the hearing loss associated to noise levels using decibel level reading meter 4. Parents and children experiencing first hand high powered microscope to see different plant and animal specimen. Ms. Kim Soper, Education Specialist talked with parents about ways that they could help their children do math at home and gave out an information sheet. A fun time was had by all, and we were very pleased to be invited to be a part of their school community. It was a great learning experience for the school children.

SEPA PROGRAM FOR SCHOOL & COMMUNITY GARDENING

SEPA has been involved in gardening and science projects for Native American as well as local community gardens with close collaboration with Dr. Andrew Jameton from UNMC. Schools with a healthy nutrition environment provide dynamic settings, such as a school garden, that foster improved student health. Students who participate in school garden projects discover fresh food, make healthier food choices, and are physically active. Ms. Julene Kay from Santee School has done outstanding work on gardening project at her school which involved children from grade 2nd to 6th. The program also helped pregnant high school girls. Recently, she reached out local community college, where in collaboration with Mr. Hank Miller, has done wonderful job for the community garden and created opportunity to guide adult and children toward healthier lifestyles.



Ms. Julene Kay and students from Santee school



ROLE MODEL : The Role Model Poster Project features Native Americans in many health and science professions. Each poster includes the name, photograph, and tribal affiliation of the person featured. Additional information for teachers include: education, benefits, motivation, special job skills, and words of wisdom. There are currently five sets of posters and each set features five tribal members.



Myles Jones
Clinical Services Administrator | Winnebago, NE

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Masters in Public Health, University of Nebraska Medical Center

FURTHER INFORMATION:

Public Health: What It Is and How It Works by Bernard J. Turnock
Student Workbook to Accompany Health Science Career Exploration by Louise Simmers
Occupational Outlook Handbook
www.bls.gov/oco
(search "Medical and Health Services Manager")



www.unmc.edu/sepa

WORDS OF WISDOM: "YOU ARE NEVER TOO YOUNG OR OLD TO CHANGE YOUR PATH. IF YOU DON'T LIKE THE PATH BEFORE YOU, EDUCATE YOURSELF AND MAKE A CHANGE" **Myles Jones**