



Courtesy of Kansas State University

T. G. NAGARAJA

Microbiology
Kansas State University

T. G. NAGARAJA (nah-guh-ra-juh) current

- Is an expert in diseases of and the health of cattle, especially relating to their stomachs.
- Studies food-borne pathogens (disease-causing micro-organisms).
- Studies an e-coli bacteria that is harmless to cattle, but can be deadly when passed onto humans through the food supply.
- Helped develop the first U.S. vaccine against e-coli for cattle.
- Also researching salmonella, a type of food poisoning that can affect both cattle and humans.

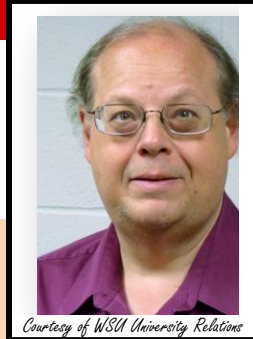
EXTRA COOL: Born in India. Earned degrees in India and also at KSU where he is a professor at the College of Veterinary Medicine.



Project of the Ad Astra Kansas Initiative
www.adastra-ks.org

2011 **SCIENCE in KANSAS**
150 years and counting

Kansas Sesquicentennial 2011



Courtesy of WSU University Relations

NICKOLAS SOLOMEY

PARTICLE PHYSICS /
ASTROPHYSICS

Wichita State University



Nickolas Solomey current

- Stargazing and the Apollo moon mission started his interest in science at age six.
- Famous for discovering a new measurement key to understanding how quarks (very small particles of matter) pair together. This is important as scientists study matter on a level smaller than the atom.
- Works with Fermilab, the U.S. Dept. of Energy national high-energy particle physics lab.
- Is chairman of the WSU Department of Physics. Involved in a project that may bring a cosmic ray observatory to Kansas.

EXTRA COOL: Has written an award-winning book for the public entitled "Elusive Neutrino: a Subatomic Detective Story."



Project of the Ad Astra Kansas Initiative
www.adastra-ks.org

Lloyd STEARMAN 1898-1975

- Born in Wellsford, in Kiowa County, and grew up in Harper, class of 1917.
- Studied engineering and architecture at what is now Kansas State University. Learned to fly as a Navy pilot.
- Designed his first aircraft at age 25. Flew it at the National Air Races in Dayton, Ohio, where it won awards.
- Joined with Clyde Cessna and Walter Beech to form Travel Air Company, in Wichita in 1925 to manufacture planes.
- In 1927, formed his own company which later became a part of Boeing. Was president of Lockheed. Also worked on helicopter and space craft projects.

EXTRA COOL: Inducted in the National Aviation Hall of Fame in 1989.

Project of Ad Astra Kansas Initiative www.adastra-ks.org



Wichita Public Library
Photograph Collection



Lloyd STEARMAN

Aviation

2011 **SCIENCE in KANSAS**
150 years and counting

Kansas Sesquicentennial 2011



Courtesy of KU University Relations

DON STEEPLES

GEOPHYSICS

University of Kansas



Don Steeples current

- Grew up near Palco, in Rooks County.
- Degrees from K-State and Stanford Universities.
- Geophysics is a kind of earth science. Steeples is an expert on seismology. He studies earthquakes and seismic waves (waves of energy caused by the sudden shifting of rock inside the earth or by an explosion). These underground sound waves are recorded and used to measure and map the earth's movement.
- Manmade seismic waves are used on a smaller scale to map sinkholes or find groundwater, etc. One method is to shoot a bullet into the ground. This causes sound waves underground. Then a sensitive microphone called a geophone picks up these underground echoes.

EXTRA COOL: In 2007, Steeples was chosen to speak around the world on how geophysical imaging can detect everything from drug-smuggling tunnels to earthquake faults.

Project of the Ad Astra Kansas Initiative www.adastra-ks.org