



“The mind cannot forget what the hands have learned.™”

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FEATURED EDUCATOR

Chuck Roney Innovative Grant Seeker

Toward the end his thirty-eight year career as a science educator, Chuck Roney was first introduced to the ANATOMY IN CLAY® Learning System. As he was walking the aisles of a New Jersey Science Teachers Association's conference years ago, Roney saw a skeleton with colored clay highlighting the muscles and organs of the human body. "Right away, I knew this clay building system was just what I wanted. There are not many tools available for high school science teachers that focus on anatomy, and this looked like a hands-on tool that really would engage my students."

By the time he retired last year, Roney had purchased over fifty Maniken® models. One of the ways he budgeted for his model inventory was to apply for various science equipment grants to help obtain funding.



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"What I suggest to educators who are under budget constraints, as I was, is get people in your community - especially those in the medical field - to help you purchase the models. Have the kids work on the models, take pictures of them, and send it to grantors to show how effective the system is. It doesn't take much time to show that the system really works and how happy the students are to be using it."

After attending a workshop presentation that taught him how the Learning System works, Chuck returned to the Eastern Camden County Regional School and began the process of integrating the MANIKEN® models into his anatomy, physiology and honors biology classes. "With some training, the system is easy to use and because it engages students so well, it is a pleasure to incorporate into the curriculum."

Once he received district funding, Roney totally integrated the models into his curriculum. He then discontinued using cat dissection as a supplementary learning tool. "Retention is simply better with MANIKEN® models than it is with dissection. It is more meaningful to use the models

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to learn the detail of the human body than it is with the cat. Students find it hard to remember things going from a cat to a human. Plus we don't have to deal with PETA issues or disposal of specimens."

Once Roney brought the models into his classes, enrollment in anatomy courses increased. "I used to teach about 70 students per year, but when I began using the ANATOMY IN CLAY® system, it grew to 150 students by the time I retired eight years later. The news got around that it was a valuable elective and the students became excited about enrolling in anatomy."

Roney notes that the rewarding part about our anatomy learning system is that it is so flexible. He found that he could present his lectures on a particular body system at the same time the students were building the same system on the models. During a semester, the students would learn origin, insertion and action for various muscle groups. Then about a month into their study, they would focus on body systems such as circulation, nervous and digestive.

Over time, a number of students reported back to Roney that they retained muscle knowledge and did much better with advanced degrees, such as nursing, because of their strong anatomy foundation.

Roney thinks these students did well because, "As they were building the models, they were actually building on their knowledge of the human body system and how it all fits together."

Since his retirement, Roney travels about the nation conducting workshops as an Educator Liaison for ANATOMY IN CLAY® Learning System. Instead of teaching students, he's training the trainers. "It's a great concept and I think my enthusiasm shows, plus I still get a chance to teach and travel a bit."

When asked to advise other educators who are considering implementation of our ANATOMY IN CLAY® Learning System, Roney offers: "Buy it – it works. Kinesthetic learning is the way to go."

JOIN OUR COMMUNITY ON FACEBOOK
"Like" us and join our growing community of educators on Facebook.



NATIONAL ASSOCIATION OF MIDDLE SCHOOL PRINCIPALS

Through an associate partnership with the National Association for Middle School Principals (NAMSP) ANATOMY IN CLAY® Learning System is collaborating on a number of activities with the organization. Sponsorship of National Instructional Leadership Awards, in-kind anatomy equipment loans, and stipend monies for winning administrators attending the annual meeting are some of the contributions that ANATOMY IN CLAY® Learning System is making to NAMSP.

"The values of NAMSP are in line with our core values – to provide innovative and hands-on methods to help students succeed in school - that it was a natural fit for a collaborative relationship," says Val Zahourek, CEO Zahourek Systems, Inc.



2012 MEETINGS AND EVENTS

- NSTA Regional Event
Louisville, KY
October 18-22
www.nsta.org



- California Science Teachers Association
San Jose, CA
October 18-22
www.cascience.org



- NCHSE
Salt Lake City, UT
October 24-26
www.healthscienceconsortium.org



- Future Farmers of America
Indianapolis, IN
October 24-27
www.ffa.org



- NSTA Regional Event
Atlanta, GA
November 1-3
www.nsta.org



- Illinois State Science Conference
Springfield, IL
November 1-3
www.ista-il.org



- ANATOMY IN CLAY® Professional Development
Denver, CO
November 2-3
www.anatomyinclay.com



- Science Teachers Association of New York State
Rochester, NY
November 4-6
www.stanys.org



- Association for Middle Level Education
Portland, OR
November 8-9
www.amle.org



- Texas CAST
Corpus Christi, TX
November 8-9
www.statweb.org/cast



- North Carolina Science Teachers Association
Winston-Salem, NC
November 8-9
www.ncsta.org



- Massachusetts Association of Science Teachers
Boxborough, MA
November 15-16
www.massscienceteach.org



- ACTE
Atlanta, GA
November 29-December 1
www.acteonline.org



- IITSEC
Orlando, FL
December 3-6
www.iitsec.org



ANATOMY IN CLAY® EVENT

Reignite your Health Science and Anatomy Instruction with Engaging, Interactive, Hands-on Teaching!

November 2-3, 2012

8:00AM - 4:00PM

**The Studios At Overland Crossing
2201 South Delaware
Denver, CO 80223**

Presenter/Educator Liaison: Teri Fleming

Program Description. Our Professional Development Workshops provide educators and administrators with practical strategies created to enhance the ANATOMY IN CLAY® Learning System in your classroom. Key elements include hands-on overviews of terminology, muscle and bone identification, body systems, effective use of clay, and managing the classroom environment.

Registration Fees/Information. Fee for a 2-day workshop is \$300. Fee includes use of a MANIKEN® model and clay.



WHAT'S NEW? ANATOMY IN CLAY® Centers, Denver

Anatomy in Clay Centers, Denver, is now offering a full schedule of classes for the Fall 2012 session at the Studios at Overland Crossing. Course lengths range from 3-hour workshops to 40-hour + programs. Utilizing the ANATOMY IN CLAY® Learning System, topics cover various aspects of the human body.

Classes are designed for participants of all ages and

abilities from diverse backgrounds such as allied health, science, the arts, body-worker fields, or anyone with a keen interest in anatomy.

Visit the Anatomy in Clay Centers website at www.anatomyinclaycenters.org to view the schedule of classes and workshops at or call 720-570-7820 for more information.

GRANT OPPORTUNITIES

From Failure to Promise. The Failure to Promise K-12 Educator's Grant provides a \$1,000 award to a community-based organization, library or school with creative ideas to "to motivate, energize, and catapult your K-12 students/youth to reach their full promise in literacy, math, science, or technology." Application deadline: July 31, 2013.
www.fromfailuretopromise.com/K-12--Educator-s-Literacy-Grant.html

Toshiba America Foundation. Toshiba America Foundation Grants for Grades 6 - 12 provides up to \$5,000 for teachers who are passionate about making science and mathematics more engaging for their students. Funding can be used for "a wish list of instructional equipment that will make learning more exciting." Rolling application. <http://www.toshiba.com/taf/612.jsp>

DID YOU KNOW?

Dr. Mildred Trotter (1899-1991) was an anatomist and physical anthropologist whose pioneering studies led to the largest single increase in our knowledge of bone, and contributed to a wide range of disciplines, including medicine, forensics, engineering, and aeronautics. For forty-one years, Dr. Trotter served thousands of students as a Professor of Anatomy at Washington University. She believed that students should learn not from books but from observing nature. She said in a 1975 interview, "Learning to observe is one of the chief benefits of studying anatomy."

Her studies of old Egyptian and

Roman era remains at the University of Oxford in England in the mid 1920's sparked her intense interest in bones. In 1948-49 she served as an anthropologist for the American Graves Registration Service at Schofield Barracks in Hawaii where she and her team identified the skeletal remains of war dead. She also conducted allometric studies using the long limb bones of identified dead, one of the first times that war casualties were used in scientific research. From these studies Trotter devised an improved formula for

calculating stature estimates derived from the lengths of long limb bones. The formulas are still used today in forensic medicine.



Becker Medical Library, Washington University School of Medicine

In the 1950s Trotter played an instrumental role in changing Missouri law, making it possible for people to donate their bodies to science. Upon her death in 1991, her body was willed to the Washington University School of Medicine.