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Collaboration Integration Support Achievement Teaching

These are the goals and values that CISAT strives to espouse

VINCULUM

A newsletter of the
College of Integrated
Science and Technology

□ Vinculum, meaning a bond or tie, is derived from the Latin vincire. This represents the many connections among our programs, faculty, and students

MESSAGE FROM THE DEAN

Faculty, Students, Alumni, and Friends,

Welcome to the "New Beginning: Fall '05." In the academic setting, this is the time of excitement and anticipation for a new year. Beginnings are a time to reflect upon our past, learn from our experiences, look to the future, anticipate those interesting twists and turns in the road before us, contemplate where we want to be, and then set out on our path.

As I noted in the CISAT College Opening Faculty meeting, there are many possible opportunities in front of us and we, as a faculty, our students and our academic programs, are well positioned to take advantage of these opportunities. Some of these possibilities are opportunities for our existing programs with additional focus, resource and/or tweaking of what we do. Some of these possibilities are new directions

As a College we are well positioned to address four major issues facing our society today. Health care is a concern for everyone today-preparing adequate numbers of practitioners providing services to marginalized populations and preparing for the new services that will be required for an aging population. Through the Task Force on Future Health and Human Services Programs, faculty

from across the Academic Affairs Division are looking to the future and will be making recommendations on possible directions for us. We continue to be active along with our colleagues in the College of Education in intervening in science, math and technology curriculum development and delivery in the k-12 sector. Our nation is facing a shortage of scientists, engineers, and technology professionals of crisis proportion. We will be working with our colleagues in Admissions and the College of Science and Mathematics to increase the proportion of JMU students who major in these areas. And lastly, research by our faculty and students and our existing and new programs continue to address the nation's infrastructure and information protection needs.

Moving forward is a given. Since the inception of this College, it has been a force in motion. Our mandate, our destiny is one of change. Changing in response to societal needs, emerging fields of study, emerging interfaces of disciplines and technologies, and the expanding curiosity and application of the talents of our faculty and students.

Change is necessary, change is exciting, but change is not necessarily comfortable. Change evokes questions of why, who, when, where and

how. Effective change that truly moves us forward as a College in terms of our mission will require collaboration, cooperation, communication and trust. If you grew up as I did, playing some rock and roll in the '60's, it means getting past the C, F, G cord progression and maybe adding an A minor. It means stretching beyond our usual or traditional programs and approaches, and thinking creatively. Within our College, it means thinking creatively, collaboratively and cross-disciplinarily.

We all-faculty, staff and students-are focused on and working toward the enhancement of our programs and the learning opportunities for all our students-graduate and undergraduate. We need to share our ideas and our thoughts. We need to respect and learn from our various points of view. And together we need to position our College and its' programs to continue its trajectory of quality programs and position our self to take advantage of the opportunities that present themselves.

Jerry Benson,
CISAT Dean

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GRANTS AWARDED April - September 2005

SHOW ME THE MONEY!

COMMUNICATION SCIENCES & DISORDERS

Early Development of Auditory Temporal Processing:
Lincoln Gray

Enhancing Healthy Hearing:
Brenda Ryals

COMPUTER SCIENCE

Teaching via JMU Video
Wall: **Malcolm Lane**

2005 Paradigm Workshop:
M. Hossain Heydari

GEOGRAPHIC SCIENCE PROGRAM

The Wintergreen Arch Survey:
Carole Nash

ISAT

Ozone Outreach in Win. & Fred. County:
Christine Brodrick

State-Based Anemometer Loan Program:
Jonathan Miles

Energy Innovations:
Jonathan Miles

SHEN GMP Synthesis:
Steven Frysinger

American Solar Project:
Jonathan Miles

GRASP Subcontract:
Robert Kolvoord

Center for Rural STEM Education:
Robert Kolvoord

MINE ACTION INFORMATION CENTER

Senior Management Course-Year 2:
Dennis Barlow

INSTITUTE FOR INNOVATION IN HEALTH & HUMAN SERVICES

School Based Treatment of ADHS:
Steven Evans

Asset Model of Youth Development:
Jane Hubbell

Regional Collaboration Meetings:
Jane Hubbell

Matematica-MEP Consortium Incentive:
Jane Hubbell

Community Health Worker Outreach Project:
Christopher Nye

CDC 2006:
Elizabeth Dahmus

Ed Consultant 2006:
Elizabeth Dahmus

Project Connect-2006:
Christopher Nye

Community Resource Center:
Vida Huber

BRAHEC support-RMH:
Christopher Nye

CHIS-Community Services Board FY06:
Christopher Nye

Bright Smile:
Jane Hubbell

PDS Support-Asbury United Methodist:
Christopher Nye

Sentara Interpretation Services:
Christopher Nye

PSYCHOLOGY

VA Child Protection Newsletter 05-06 FY:
Joanne Grayson

Psychology Internships 2006:
Tammy Gilligan

NURSING

Alzheimer's Demo Model-Year 2:
Merle Mast

Faculty Practice at Sunnyside:
Merle Mast

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Achievement

Teaching

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CISAT ACHIEVEMENT SCHOLARS

DIVERSITY COUNCIL

CISAT ACHIEVEMENT SCHOLARS

CISAT Achievement scholarships are targeted at top students with strong academic records who are likely to be high achievers and leaders in and outside of the classroom. Five scholarships are awarded each year, and each student is eligible for a two-year scholarship in the amount of \$3600 per year. Of that amount, \$2000/year is pure scholarship, and \$1600/year is contributed through student work money. This work component of the scholarship is designed to provide the student an opportunity to become more familiar with the program in which they intend to enroll.

2005-2007

Tyler Badorrek:
Computer Science

Catherine Bloomfield:
Nursing

Candice Gray: Kinesiology

Megan Ridgway: Health
Sciences (Athletic Training)

Caitlin Stevens: Communi-
cation Sciences and Disor-
ders

DIVERSITY COUNCIL

The CISAT Diversity Council formed last year with the 2004-2005 focus on development of departmental strategic plans. For the 2005-2006 academic year, the council will focus on reviewing departmental strategic plans, facilitating sharing of ideas regarding implementation of plans and develop a College strategic plan.

Current membership of the council is as follows:

*Membership on the CISAT Diversity Council is open to any interested faculty. If someone is interested in joining the council please contact the Dean's Office.

Claire Jacobson,
Communication Sciences &
Disorders

Elizabeth Adams,
Computer Science

Ruben Prieto-Diaz,
Computer Science

Renee Staton, Graduate
Psychology

Pamela Bailey, Health
Sciences

David Cockley, Health
Sciences

Anthony Teate, ISAT

Larry Ham, Kinesiology

Linda Hulton, Nursing

Gohar Karami, Nursing

Craig Abrahamson,
Psychology

Arnold Kahn, Psychology

Cheryl Talley, Psychology

BJ Bryson, Social Work

Hyong Yeom, Social Work

Emily Akerson, IIHHS

Jonathan Spindel, Lab
Operations

WC Sheets, Lab Operations

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SENIOR MANAGEMENT TRAINING

NEW ADDITIONS SHOW ME THE MONEY!

MAIC PROVIDES SENIOR MANAGE- MENT TRAINING

The Mine Action & Information Center (MAIC) was established “as a Center of Excellence with a mandate to collect, process, analyze and disseminate information relevant to humanitarian mine clearance, victim assistance, community risk reduction, refugee resettlement and other landmine-related issues.” The MAIC contracts with the United Nations to conduct senior management courses for international mine action managers. The course focuses on management skills and land mine removal operations. JMU has facilitated two courses thus far training approximately 45 managers from 30 countries. The MAIC hosts the managers for a 5-week course where they stay on campus and attend classes five days a week. Their third installment of the Senior Management Training starts on September 26th where they will train an additional 22 individuals from 16 new countries. The newly trained managers will go back to their country and run a new land mine removal operation.

For more information please visit their website :
<http://maic.jmu.edu/index.htm>

Ms. Ann Horigan, Nursing

Ms. Susan Conaty-Buck,
Nursing

PLEASE WELCOME OUR NEW ADDITIONS TO CISAT FACULTY & CLASSIFIED STAFF:

Robert Bonfiglio, Technical
Support East Campus

Diana Brookes, Child
Development Clinic

Carissa Henriques, CISAT
Creative Services

Katherine Baird, Institute for
Innovation in Health &
Human Services

Margo Fitzsimmons, Insti-
tute for Innovation in Health &
Human Services

Jennifer Seaman, Institute
for Innovation in Health & Hu-
man Services

Tammy Crawford, Dean’s
Office

Kris Christophel, Institute
for Innovation Health & Hu-
man Services

Ms. Gohar Karami, Nursing

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Who's Who? Meet the new faculty of CISAT

WHO'S WHO?

COMMUNICATION SCIENCES & DISORDERS

Dr. Lincoln Gray

Background: Dr. Lincoln Gray previously worked at the University of Texas Medical School at Houston as the Director of Research in the Otolaryngology Department. His primary research lies in the development of hearing. Great colleagues, opportunities for collaboration, and better weather brought him to JMU.

Fun Fact: Dr. Gray took his family, including two teenage daughters through Pakistan, Indian, and Egypt for 6 months while completing a Fulbright Fellowship to study cancer.

Last Book Read: Collapse by Jared Diamond

Dr. Ayaskanta Rout

Background: Dr. Rout comes to JMU from Ohio University where he served as an Assistant Professor of Audiology. His area of specialization focuses on hearing aid technology, perceived sound quality judgment in individuals with cochlear hearing loss and electroacoustic characteris-

tics of hearing aids.

Last Book Read: Literature in his native language Oriya used by the people of Orissa, one of India's eastern coastal states

HEALTH SCIENCES

Dr. Amy Yun

Background: Prior to working at JMU, Dr. Yun worked as an occupational therapist at Atwater Park Center & Therapy West Inc., located in Los Angeles. Her primary interest lies in sensory integration, early intervention, infant-mental health, NDT in pediatrics, and working with underserved communities. The excellent reputation of JMU, impressive faculty, and collaboration of the faculty attracted Dr. Yun to JMU.

Fun Fact: She is slowly learning to speak Korean.

Last Book Read: Professionally, The Essential Guide to Occupational Therapy Fieldwork Education: Resources for Today's Educators & Practitioners. Personally, Harry Potter and the Half-Blood Prince by J.K. Rowling

CISAT LABORATORY OPERATIONS

Ms. Emma Kirby-Glatkowski

Background: Ms. Kirby worked as a quality control analyst at Alkermes, a biotech in Cambridge, MA. She just recently completed her Masters in Biology with a specialization in teaching anatomy and general biology from JMU. Her initial draw to JMU was the Masters program offered by biology that focuses on teaching. Originally from Winchester, VA, it was also an opportunity to be close to home again.

Fun Fact: Ms. Kirby is learning to play the violin and is not going to quit until she sounds like Eileen Ivers. "I'm up to Twinkle-Twinkle, so it won't be long now..."

Last Book Read: Harry Potter and the Half-Blood Prince by J.K. Rowling

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WHO'S WHO? NURSING

Ms. Donna Trimm

Background: Ms. Trimm previously taught at Indiana State University in the College of Nursing where she taught fundamental of nursing and medical-surgical theory content. Her primary interest is in adult health, medical-surgical topics, and education. Her dissertation was on the process of waiting as described by adults waiting during a patient's surgery. The energy of JMU's nursing department is what brought her to Harrisonburg.

Fun Fact: She loves critters. Finding black bears in her front yard, deer eating grass, seeing a pileated woodpecker...she feels like she is in heaven here!

Last Book Read: The Secret Life of Bees by Sue Kidd

Ms. Lynette Crull

Background: Ms. Crull served as a RN at RMH in the Family Birth Place before coming to JMU. She has her master's degree as a Pediatric Nurse Practitioner, which is where her primary interest lies. Ms. Crull came to JMU because she wanted to use her degree to teach upcoming nurses skills, techniques, and tips that they will need for their career in nursing.

Fun Fact: She is married

with one wonderful and beautiful daughter, one dog, three cats, two rabbits, and many fish.

Last Book Read: One of her daughter's books about animals.

COMPUTER SCIENCE

Dr. Florian Buchholz

Background: Dr. Florian Buchholz arrives to JMU after finishing his graduate work at Purdue University where he served as a graduate research assistant. His primary research interest lies in cyber-forensics and information security. The strength of the InfoSec program and beautiful countryside attracted him to JMU.

Fun Fact: Dr. Buchholz was on the Purdue Ballroom Competition Team

Last Book Read: Der Dativ ist dem Genitiv sein Tod by Bastian Sick

KINESIOLOGY

Ms. Vivian Smith

Background: Prior to returning to JMU, Ms. Smith worked for INOVA Health Systems as an Industrial Rehab Specialist. Her primary interest is in the area of health promotions. She enjoys planning and creating projects to help others adopt a healthier lifestyle. She originally com-

pleted her Master's at JMU and felt that returning to JMU to serve as a colleague was quite the honor.

Fun Fact: Ms. Smith is one of eight children and enjoys NASCAR.

Ms. Stephanie Hudy

Background: Ms. Hudy served as a nutritionist with the Women, Infants, Children's (WIC) program through the State Dept. of Health and Central Shenandoah Health District from 1991-2004. She is particularly interested in school food service and in Maternal and Child Nutrition.

Fun Fact: After graduating early from Va Teach, she spent 6 months living on a bus, employed as a cook for a tour company that conducted "budget, camping tours" across the country. Her mobile kitchen fit into the bins under the bus.

Last Book Read: Harry Potter and the Half-Blood Prince by J.K. Rowling

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WHO'S WHO? ISAT

Dr. Jeffrey Tang

Background: Dr. Tang was previously employed at the University of Pennsylvania where he recently received his Ph.D. in the History of Sociology of Science. He is particularly interested in the study of technological systems and standardization and the role of users in shaping technologies. The ISAT program attracted Dr. Tang due to its freedom from traditional academic boundaries.

Fun Fact: For the first 21 years of his life lived within a few blocks of Lake Michigan

Last Book Read: Ken Alder's The Measure of All Things

Dr. Emil Salib

Background: Dr. Emil Salib came to JMU after working for Telcordia Technologies as a Telecommunications Solution Architect. Dr. Salib's expertise lie in telecommunications software system engineering and development, program management, real time service delivery platform and electrical engineering, to name a few. The unique premise of the ISAT department attracted Dr. Salib to JMU and he felt strongly that he would like to be part of such an educational program.

Fun Fact: He is... " always

willing to try new things, not afraid of changes, ambiguity and ready to start from scratch if must."

Last Book Read: Defining the Wind, Scott Huler

Ms. Michaela Buenemann

Background: Ms. Buenemann was previously involved in the Department of Geography at the University of Oklahoma where she was a doctoral student and graduate teaching assistant. Her primary interest lies in the application of remote sensing, GIS, spatial modeling and geocological field techniques to assess land degradation, land use/land cover change, farming systems, and sustainable development in the world's dry lands.

Last Book Read: Jared Diamond's Collapse: How Societies Choose to Fail or Succeed

Mr. Mark Blanchard

Background: Mr. Blanchard taught Geosystems Science and AP Environment Science at West Springfield High School in Fairfax County for 30 years where he served as the Science Department Chair for 5 years. He is particularly interested in pattern analysis and geostatistics in an analysis environment, specifically impact craters in

North America.

Fun Fact: His 1st grade teacher asked him to go to the front of the room and keep talking until he ran out of things to say. He never ran out of things to say. Walking home from school that afternoon, he was met at the door by his teacher and his mom.

Last Book Read: David McCullough' 1776

Dr. Amy Richert

Background: Dr. Richert previously worked as an assistant research professor at the University of Nebraska-Lincoln where she spent her time grant writing and teaching. Her primary interest is in Biogeography, especially bird species as indicators of environmental change. The integrated nature of the ISAT department and potential growth for environmental geography attracted Dr. Richert to JMU.

Fun Fact: One of her favorite birds is the Cuban tody.

Last Book Read: Shadows on the Grass by Isak Dinesen

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MEET DR. SHARON BABCOCK



Meet Dr. Sharon Babcock...

Dr. Sharon Babcock may be a new addition to the Institute for Innovation in Health & Human Services, but she is definitely not a new face around campus. Dr. Babcock has been at JMU since 1993 as a full-time member of the Biology faculty. An anatomist by trade, Dr. Babcock is still teaching part-time and running a biology research lab along with her current position with the Institute. As of 2005, Dr. Babcock serves as the Coordinator of Pre-professional Health Programs where her main focus is to help undergraduates prepare for graduate school. She also coordinates the pre-medicine program, one of the 8 pre-professional health programs. Dr. Babcock serves as the faculty advisor for the Virginia Epsilon Chapter of Alpha Epsilon Delta, the pre-professional health honor society.

A LITTLE BIT OF BACKGROUND...

Her bachelor's degree in zoology is from the University of Oklahoma and her graduate work was later completed at Duke University. While working toward her doctoral degree at Duke, Dr. Babcock taught anatomy and physiol-

ogy for a Chapel Hill-located massage school, the Body Therapy Institute. It was in North Carolina that she first discovered her love for teaching.

While at Duke University, Dr. Babcock examined the musculoskeletal design of hind limbs in galagos, a group of leaping prosimian primates. Here at JMU, she has explored the fascinating ability of salamanders to add segments to the axis of their body over the course of their life. Her current research stems from previous analyses of larval and adult morphology of the tail of the salamander and is now focused on embryological development.

Dr. Babcock is the 2005 recipient of the Distinguished Teaching award for the College of Science & Math. She also received Best Foreign Faculty of the Year in 2003 at Kathmandu University Medical School after teaching a 6-week clinical course on the musculoskeletal system in Kathmandu, Nepal.

ALL WORK AND NO PLAY?...

Dr. Babcock's hobbies do not stray far from her profession as she is an avid animal lover, the parent of one dog and

2 cats. If she does have free time, you can find Dr. Babcock outdoors riding horses, cycling, hiking, or gardening, anything to get her away from the keyboard. She is also involved in a local book club and just recently finished reading *Instinct to Heal*, by Doug Servan-Schreiber. Her latest interest involves sitting in on other classes at JMU. She has promised herself to take advantage of being employed at a learning institution and take one class per year. Last year she attended an upper level Buddhist Thought class taught by Dr. Sallie King, and this year she is challenging herself with a Medical Anthropology Class taught by Dr. Andrea Wiley. She even takes the tests, "I take the tests to challenge myself. It takes me to where my students are, on the other side of the chalkboard."

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BENSON RECEIVES DISTINGUISHED ALUMNUS AWARD AT PEABODY



Dr. A. Jerry Benson, Dean of the College of Integrated Science and Technology at James Madison University and a professor of psychology, has been selected the 2005 recipient of the Peabody College Distinguished Alumnus Award.

The award is presented annually to a Peabody graduate who has made outstanding contributions to his or her chosen field. Other criteria include a reputation of excellent character, a respected and ethical work record, as well as national and international recognition for achievements.

“It is clear from your years as educator and researcher, and from the glowing recommendations from two of your colleagues, you are extremely worthy of this award,” wrote Camilla P. Benbow, Patricia and Rodes Hart dean of education and human development at Peabody, in a letter to Benson. “You embody and exemplify the level of commitment and integrity Peabody strives to instill within its student body, faculty and staff.

“Your contributions to curriculum and instruction, cross-

programmatic development, and leadership in higher education have distinguished you as a role model to countless numbers of individuals. Your body of work, numerous leadership roles, dedication to students, and willingness to mentor countless aspiring educators are all worthy of praise.”

Benson was presented the award May 12 during commencement ceremonies at Peabody. He also was honored at a reception that evening.

Peabody College is Vanderbilt University’s college of education and human development, and is located in Nashville, Tenn.

Benson received two advanced degrees from Peabody: a master of arts degree in school psychology in 1973 and a Ph.D. in the Transactional-Ecological Psychology Program in 1976. He is a 1972 graduate of Concord College, where he was valedictorian and graduated summa cum laude with a bachelor of arts in psychology.

Benson became dean of CISAT in 2001 after serving

as interim dean beginning in 1999. He was dean of JMU’s then-College of Education and Psychology from 1992 to 1999, and acting dean beginning in 1991. Benson has served on JMU’s faculty since 1980, starting as an assistant professor of psychology and director of the Human Development Center and Shenandoah Valley Child Development Clinic. He is a licensed clinical psychologist.

“It is clear from your years as educator and researcher, and from the glowing recommendations from two of your colleagues, you are extremely worthy of this award,”

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