



Vinculum

A newsletter of the College of Integrated Science & Technology

Fall, 2003

Volume 3, Issue 1

Collaboration

Integration

Support

Achievement

Teaching

These are the goals and values that CISAT strives to espouse.

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

Dean's Message

Jerry Benson, Dean CISAT

As this is the beginning of a new academic year, let me wish you a Happy New Year. I think we are all experiencing a very "full" immersion into this fall semester and it seems to be progressing much too rapidly. Much too rapidly because so many good things are happening.

This year marks the ten-year anniversary of the College of Integrated Science and Technology. Many things have changed over those ten years. The College has grown from 2 academic programs – Integrated Science and Technology and Computer Science, both of which started with something like 4 faculty members in each program – to 9 academic units comprised of 17 undergraduate majors and 22 graduate programs with approximately 4200 majors, and 164 full time faculty and 211 full time equivalent faculty. In addition, there are over 10 different institutes and centers, with well over 40 individual outreach/strategic partnership programs, administered by the College. Each of you,

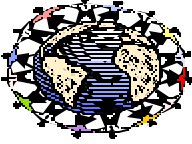
faculty member, classified staff and students, have been a part of crafting something unique.

We began this year with a period of reflection and looking forward in the College's opening faculty meeting. The feedback I have received from faculty who participated, and my own impression, is that through that exercise we all realized there are common threads that connect the programs of our College and give us an identity. There also was considerably consensus on those general themes that are important to focus on in the future in maintaining the identity and culture of our College. What came across was that it was not only important for us to do different things – our emphasis on interdisciplinary curriculum, integrated outreach efforts, effective use of technology, unique international learning experiences, but to do these things differently – strategic university-outside entity alliances, faculty actively engaged in "clinical" or "practice" activity, faculty

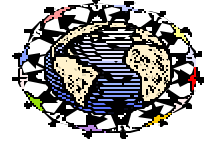
successfully integrating teaching-scholarship-service, students actively engaged in application/"practice".

Central to our progress in the future as the College of Integrated Science and Technology will be our collective ability to look to the future – to be prepared and well-positioned to take advantage of opportunities, to work collaboratively in trying new approaches – forging new alliances, to not only be comfortable with, but actively seeking a state of continuing transformation. We must remain open to ideas that will come from all levels and varied sources internal and external to our College.

But as we look to the future, you should also take time to reflect on the past and your accomplishments. This College is a dynamic creative force because of each of you – your participation, your contributions. Here's to a great 2003-2004 academic year and to the beginning of another great decade.



Dr. Altai's visit to Baghdad (July 24 –August 2, 2003)



The purpose of the trip was to collaborate on a proposal with the University of Baghdad (UB), College of Engineering (COE), that was submitted to USAID. This USAID RFA calls for the establishment of partnerships between U.S. and Iraqi colleges and universities to invigorate and modernize Iraq's institutions of higher education. This program will facilitate the dispersal of development resources and technical expertise to Iraq's universities and technical colleges, and engage Iraqi higher education administrators, faculty and students in the revitalization of Iraq's higher education system. Funds will be issued for a twelve-month pe-

riod, with the possibility of two one-year extensions, to up to six U.S. colleges, universities, or higher education consortia, each responsible for partnerships with specific Iraqi institutions.

During his three-day visit to UB, Dr. Karim Altai (ISAT) met with the President of UB, Dean of COE and the Chair of the civil engineering department who introduced him to 15 faculty members from civil, mechanical and electrical engineering departments. Copies of proposal activities and objectives were distributed to the 15 faculty and the proposal approach was discussed in a meeting that involved the 15 faculty and department heads in the above mentioned departments. Dr. Altai toured

almost all the labs in the three departments. The faculty at the COE really appreciated his presence and efforts to help their college.

The proposal team including Dr. Abdelrahman Rabbie (ISAT) is committed to making the difference for the COE. They understand that funds that might be available to fund this proposal may be dwarfed by the needs of the three departments. Nevertheless it can be the starting point for revitalizing the COE and keeping the hope of their faculty, students and administrators for a better academic environment and future and most importantly, their faith in our government ef-

JMU HOSTS INTERPROFESSIONAL COLLABORATION CONFERENCE

In June, the Institute for Innovation in Health and Human Services (IIHHS) hosted the 2003 Interprofessional Collaboration Conference, "Sharing the Vision and Building a Future for Interprofessional Collaboration". Dr. Vida Huber, Associate Dean CISAT, discussed characteristics of interprofessional work, rationale for IP, and the current critical need for interdisciplinary training, education, and practice. She noted the importance and value of working collaboratively and not in parallel systems. She acknowledged the number and expertise of the participants and hoped this gathering could help explore ways to promote new practices of working together. Dr. Karen Ford, a professor in Social Work, discussed the lack of support for inter- and intra-professional collaboration in higher education. She expressed how looking outside the academic setting at community needs actually gives more opportunities to connect within the university. Dr. Anne Stewart, a professor in Psychology, described the IIHHS 'structure' in bringing the key people together to talk about a systematic approach and their respective assets and needs. This is a new approach and the structure is compatible with accomplishing the goals of interdisciplinary collaboration. Important skills, such as conflict resolution, are a necessary tool for individuals working collaboratively. This could be a value added approach to college courses in each discipline. Other speakers included Dr. Craig Shealy, Jane Hubbell, Adrienne Frank, Jeffery Shelton, Robin Shelton, and Dr. Ann Cox. Throughout the conference participants were involved in discussion and different exercises focused on the importance of working together. Participants from different regions were also present by conference call.

GRANT AWARDS (April-September 2003)

Communication Sciences Disorders

Graduate Assistantship in Aural Rehabilitation: Brenda Seal
Research Assistantship in Cochlear Implants: Brenda Seal

Computer Science

Security Paradigms Workshop: Heydari Hossain
CISSE: Robert Tucker
Internet Security Without PKI: Xunhua (Steve) Wang

Health Sciences

HRTUPP YR 2: Jeanne Martino-McAllister
Health Science Graduate Assistant: Herbert Amato
Alpha Epsilon Delta: Robert Koslow

Institute For Innovation in Health & Human Services

HIV Consortium for Northwest Region: Vida Huber, Christopher Nye, Jane Hubbell
Healthy Families-Page Co. YR2: Vida Huber & Christopher Nye
HOPWA: Vida Huber & Christopher Nye
Breast & Cervical Cancer Education Program: Vida Huber & Sandra Hopper
Cancer: Public Education/Outreach Coordination: Vida Huber & Sandra Hopper
Office on Children and Youth FY 04: Vida Huber
CDC 2004: Elizabeth Dahmus & Penny Critzer
Education Consultant FY 04: Elizabeth Dahmus & Penny Critzer

ISAT

SURF-ISAT: Pauline Cushman
Regional Support Center-Lava Beds: Steven Frysinger
Regional Support Center- Ft. Sumter: Steven Frysinger
Wilderness Camp Site Inventory 2003: John Gentile
Optical Diagnostic Systems: Joe Blandino & Jonathan Miles
Wind Powering America Next Step: Jonathan Miles

Kinesiology and Recreation Studies

2003 Health & Physical Activity Institute: Jacqueline Williams

Madison Medialab

No Child Left Behind Attention Support: Angela Berry & Richard Ingram

Mine Action Information Center

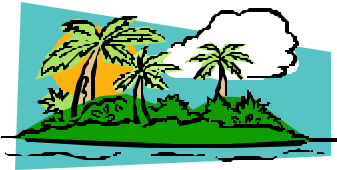
MAIC Strategic Planning: Dennis Barlow
MAIC - DOS Outreach Support: Dennis Barlow

Nursing

Partners in Prevention: Linda Hulton

Psychology

VA Child Protection News FY 03-04: Joann Grayson
Psychology Internships: Tammy Gilligan



Health and Human Services Goes to Malta



Malta is a tiny island in the heart of the Mediterranean Sea. The island, about the size of Washington DC is situated at the gates of Africa and is about 100 Km miles from the Italian coast. May 13-23, 2003, an exploratory visit to Malta was conducted in coordination with Dr. Sandra Buttigieg, M.D., Director of the Institute of Health Care and Celine Farrugia of the International Studies Program, University of Malta. This visit encompassed many on-site interviews with multi-disciplinary fields represented. Further, tours of several patient care facilities were completed.

Based on interview results from faculty at JMU and Maltese delegates, a proposed elective class in the Health and Human Service Program is being offered May 10-June 10, 2004. This course is titled, *Projects in International Health Studies* and will count for 3 semester hours in Health Studies and 1 semester hour in Maltese Culture. The cost of the trip will be approximately \$3500-\$4000 and is available to rising seniors in any HHS discipline, new graduates, or graduate students in Nursing, CSD, OT, PT, PA, and Health Sciences. For more information, please contact Dr. Cynthia O'Donoghue (CSD) or Dr. Judith Rocchiccioli (Nursing).

Proposed Projects

Project I: *Health Promotion and Preventative Medicine*

These projects would be conducted with Dr. Mario Spiteri, Ph.D., Director of Health Promotion and Prevention and/or the identified departments within the Institute of Health Care. Areas targeted include: smoking cessation, diabetic education, and HIV prevention. These objectives will be accomplished via designing and distributing educational materials with a preference for instructional technology applications. It is anticipated that HHS students as well as ISAT students will participate in the planning, development, implementation, and evaluation of Project I/Health Promotion.

Project II: Direct Contact Projects

These projects will focus on direct contact with patients or the Maltese public. These endeavors will be coordinated with the Institute of Health Care targeting direct service provision either in hospitals, village clinics or schools. Identified areas include: activities therapy, audiometric screening, and comprehensive interdisciplinary patient assessment and rehabilitative plan of care. These interdisciplinary team experiences will promote projects with each respective member's contribution salient to goal completion. That is, each project will require coordination of students' skills for a successful outcome.

Project III: Miscellaneous Projects

The miscellaneous projects will include: collecting research data, analyzing handicapped accessibility issues during the Maltese Cultural Tours, and best practices including clinical, administrative and financial in Eldercare (e.g., modified NICHE approach, cost to quality analysis, accessibility study).



ISAT explores Germany and Austria



🌐 "Alternative Energy Practicum and International Energy Initiatives in Germany" May/June 2003

Eight students participated in a study abroad program consisting of two 3-credit courses. The professors were Dr. Steven Frysinger and Ms. Carolyn Oglesby, ISAT.

◆ ISAT 416: International Energy Studies: Alternative Energy Practicum

The objective of this course was to give the students practical experience in advanced alternative energy laboratories conducting research in such topics as solar panel performance, fuel cells, biodiesel, and biomass energy. Students brought their diverse training and experience into this hands-on course and, in internationally diverse teams, combined their skills to address a problem of immediate import to the research conducted in the laboratory.

◆ ISAT 480: International Energy Initiatives

The objective of this course was to introduce and examine initiatives in alternative energy which are

being undertaken world-wide. The students took advantage of guest speakers and tours of facilities in Germany and France, but they also studied innovations occurring elsewhere.

🌐 "Enviromatics and Industrial Ecology in Austria and Germany" July/August 2003

Thirteen students participated in a study abroad program consisting of two 3-credit courses. The professors were Dr. Steven Frysinger and Dr. Ralf Denzer, ISAT and CS.

◆ ISAT 426: Environmental Information Systems

This was an intensive course in Enviromatics - the gathering and use of information and information systems for the environment - and was delivered by an international teaching team which has conducted the course for several years. They met in Schladming, near Salzburg, Austria, and then traveled by van to Mössna, the village in the Sölz Valley nearest the course loca-

tion. Class was conducted in a national park in the Austrian Alps, using the 500 year old Bröckl farmhouse as the base of operations. The program appealed primarily to students interested in both the environment and information systems. The students then traveled by train to Heidelberg.

◆ ISAT 480: Industrial Ecology

This course studied the rapidly evolving field of Industrial Ecology, wherein biological ecosystems are used as a metaphor for industrial society. Examples in the European Union were used extensively, through a combination of discussions, guest lectures, and field trips. This course took place in Heidelberg, Germany, a beautiful old city typifying Europe. They stayed and conducted classes in the 18th century Alter Kohlhof Hotel, in the mountains 7 km outside of Heidelberg (with easy transit access to the city). The student had plenty of free time each day to explore Heidelberg and its environs.

Big Changes In Psychology at JMU

During the Spring 2003 semester a decision was made to create two academic departments from the former School of Psychology. During this summer, those changes have been implemented. Psychology is now operating as two separate, but

interconnected departments. The Department of Graduate Psychology is being led by Sheena Rogers and will be responsible for all graduate programs in psychology. The Department of Psychology is being led by Michael Stoloff and will be responsible for all undergraduate programs. Many

faculty continue to teach and advise students in both departments, and most offices are not moving. Both departments are pledged to work cooperatively together under this new administrative system.



Kinesiology and recreation studies news



* Coaching Education Program Accredited

James Madison University received accreditation for its coaching education program from the National Council for Accreditation of Coaching Education (NCACE). This recognition was the result of two years of self-study and folio development coordinated by Dr. Challace McMillin. This was an historic step because JMU is one of the first NCACE accredited Level III coaching education programs in the country. The accreditation notification stated, "James Madison University has shown that it is a leader among leaders. Your coaching education program will serve as a prototype for other organizations seeking to promote excellence in coaching preparation. This, in turn, will play a major role in ensuring positive, healthy, and enjoyable sport experiences for all athletes."

* JMU Hosts Physical Activity Institute

James Madison University hosted the 2003 Health and Physical Activity Institute from July 28 through July 31. This collaborative endeavor between the Virginia State Education Department and JMU focused on increasing physical activity, nutrition education, physical education, and improving instruction in health education SOL content areas. The Institute accommodated three-hour interactive workshops, 75-minute discussion/demonstration workshops, and general sessions with keynote speakers. One goal of the Institute was to "unveil" the Physical Education Model Curriculum Guide developed by local school divisions to compliment the 2003-04 school health PASS initiative and to facilitate effective instruction in health and physical education. Over 160 teacher, instructional specialists, school nurses, and health department representatives participated in the Institute. Dr. Jackie Williams was the Institute's Director.



College Highlights & Announcements



September 17
College Picnic

October 11
Homecoming

October 31
CISAT Madison Scholar
Presentation

October 1
Nominations due for Madison Scholar, Distinguished Teacher, Distinguished Service, and Outstanding Junior Faculty Awards

October 20
Proposals due for Research and Teaching Grants and Educational Leave

November 1
Parents Weekend
Reception

October 31
Faculty Research Day

November 20
Mosier Fellow Presentation

Happy Birthday Wishes

OCTOBER

- 1- Bonnie Walker, Psychology
Matt Heck, ISAT
- 2- Penny Critzer, HDC
- 4- Teresa French
- 5- Susan Ingram, CSD
- 6- Nick Bankson, CSD
- 10- Dennis Barlow, MAIC
- 11- Suzanne Baker, Psychology Dept.
- 12- Barbara Chandler, Health Sciences
- 13- William Evans, Psychology Dept.
Nancy Harris, Computer Science
- 16- James Benedict, Psychology Dept.
- 17- Marcia Chamberlin, Blue Ridge
AHEC-JMU Outreach
- 18- Steve Stewart, Health Sciences
- 19- Craig Shealy, Graduate
Psychology
- 21- Merle Mast, Nursing
- 25- Kevin Apple, Psychology Dept.

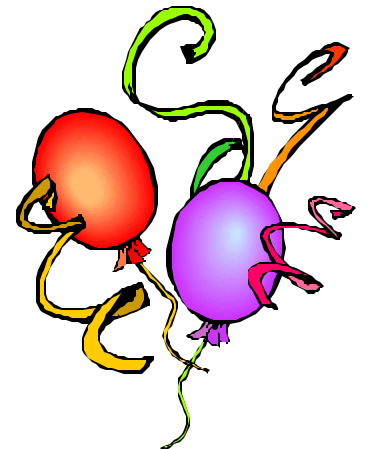
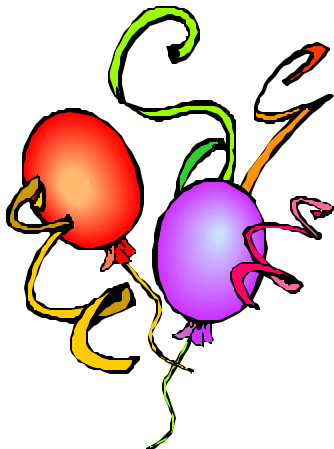


NOVEMBER

- 5- Mal Lane, Computer Science
Joyce Plymale, Kines & Rec.
- 7- Liz Adams, Computer Science
Ruben Prieto-Diaz, Computer Science
- 8- Mary Handley, ISAT
- 9- Mike Deaton, ISAT
Nena Patterson, Nursing
- 11- David Knitter, Health Sciences
- 13- Tonia Hedrick, Nursing
- 14- Becky Rohlf, Computer Science
- 16- Bob Tucker, Computer Science
- 17- Charles Huffman, Psychology Dept.
- 19- Ralph Grove, Computer Science
Liz Dahmus, HDC
Nancy Glomb, HDC
- 21- Ann Myers, Social Work
- 22- Virginia Andreoli Mathie,
Psychology Dept.
- 23- Michele Kielty Briggs, Graduate
Psychology
- 24- Rosa Turner, Graduate
Psychology
- 25- Anne Stewart, Graduate Psychology
- 26- Cindy Klevickis, ISAT
Renee Staton, Graduate
Psychology
- 29- Paul Goodall, ISAT
- 30- Bob Kolvoord, ISAT

DECEMBER

- 2- Mary Kimsey, ISAT
- 5- Ken Lewis, ISAT
- 8- Terry Wessel, Health Sciences
- 10- CJ Brodrick, ISAT
- 13- Jim Hammond, Health Sciences
- 14- Mohamed Aboutabl, Computer
Science
- 17- Brenda Seal, CSD
- 18- Becky Shaver, CSD
- 19- Gwen Good, Computer Science
- 22- Mac McMillen, TSEC
- 27- Mary Bettner, Nursing
- 28- Barb Gabriel, ISAT
- 29- Mary Lou Cash, ISAT
Tony Chen, ISAT
- 31- Jane Hilton, CSD





News from here and there



* Dr. Rory Depaolis of the CSD faculty, discussed his paper, "Influences on Infant Vowel Acoustics" at the 15th International Congress of Phonetic Sciences. It was held in Barcelona, Spain from August 3-10.

* On Saturday, August 9th at the 111th Annual Meeting of the American Psychological Association in Toronto, Canada, Arnie Kahn presented the Carolyn Wood Sherif Address, "What College Women Do and Do Not Experience as Rape". Also, just published: Lambert, T.A., Kahn, A.S., & Apple, K.J. (2003). Pluralistic Ignorance and Hooking Up. *Journal of Sex Research*, 40, 129-133.

* Congratulations to Dr. Brenda Ryals, of the CSD faculty, featured on the cover and lead article of the most recent issue of the "Montpelier" magazine.

* Presentations of original research were conducted by Dr.'s Sidman, Saunders, Flohr, and Todd, of the Kinesiology and Recreation Studies faculty, at regional and national ACSM meetings. Dr.'s Flohr and Saunders also presented a tutorial at the Southeast American College of Sports Medicine meeting in Atlanta entitled, "The Effects of Exercise on the Behaviors of Children with Attention-Deficit/Hyperactivity Disorder". Also, Dr. Sidman co-authored a text titled, "Pedometer Power" that was published in the Fall of 2002. Dr. Saunders was the lead author of a manuscript published in *Medicine and Science in Sports and Exercise* examining oxygen uptake responses to exercise. Dr. Todd also has a manuscript in review in *Measurement and Physical Education and Exercise Science* that examines the correlation between measures of aerobic and anaerobic power.

* The 5th edition of "Articulation and Phonological Disorders", co-authored by John Bernthal and Nicholas Bankson has just been published by Allyn and Bacon. This book is often labeled as a "classic" in the realm of textbooks for clinical phonology.

* Virginia Military Institute is pleased to announce the appointment of Dr. R.E. Burnett to its list of visiting scholars for the fall. Dr. Burnett, associate professor of Integrated Science and Technology at JMU and former Assistant Director of the Patterson School of Diplomacy at the University of Kentucky, will hold the Economics-Mary Moody Northern Chair in the Department of International Studies in Fall 2003. Dr. Burnett will offer courses on science and security and on bio-weaponry design and defense, as well as consult with the department on their role in the creation of a new academic minor in Science and Security.



The Office of the Dean of
CISAT welcomes back
all faculty and students!

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