



Vinculum

A newsletter of the
College of Integrated Science & Technology

September, 2002

Behind the Clouds

Volume 2, Issue 1

Collaboration

Integration

Support

Achievement

Teaching

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

Inside this issue:

VASE project	2
CSD Applied Lab	2
Grants & Awards	3
New Faculty & Staff	4
VA Mennonite Retirement Comm.	4
Community Caregivers Network	5
Mine Action Info. Center	5
Nursing Grant	6
Dept. Highlights	6
Psychology	6
Birthdays	7
CISAT Scholars	8

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

Recently we, the College as a unit and many individuals within the College, have been engaged in a collaborative effort with Media Relations, Development and the Provost's Office to "tell the story" of CISAT. Together we are trying to answer the questions of how do we best present the array of quality academic programs, the richness of a variety of learning experiences for students, the active engagement of students in applied learning, the quality of our students and faculty, our emphasis on learning through internships and outreach programs, and those "things" we feel make us unique in what we do and how we do it to various audiences. Just as a picture is worth a thousand words, our efforts are focusing on a story (or two or three) being worth a ton of printed text and lists. Somehow the stories must, as best as possible, try to catch the flavor of what is distinctive about CISAT.

While the effort is still a work in progress, just looking at the growing list of possible stories provides a needed and welcomed sense of focus, purpose and achievement in these times of preparing for tight budgets. The faculty, students, and staff of CISAT have a lot in which to take pride:

- The many stories of students actively engaged in research leading to national awards, publications, conference presentations, and direct application to clinical, governmental and industry settings.
- The College's extensive outreach programs exemplified by one's such as the Health Place and the Mine Action Information Center.
- Exciting research projects in alternative energy, hair cell regeneration to address hearing loss, photogrammetry in evaluating materials, trans-generational activities programs, new modes of manufacturing with living systems and rapid prototyping, and many more.
- The creativity occurring in the classrooms with effective instructional use of technology, trying new/best practices in teaching, enhancing assessment techniques, team teaching, and more.

The stories to tell are endless.

Our College celebrates the anniversary of its first decade this year. It strikes me that this first decade has been characterized by creation, development, a focus on outcomes rather than traditional disciplines (something a colleague recently informed me should be considered as being in the post disciplinary era), and a desire (beyond a willingness) to team together in taking risks. As a relative newcomer to the College— although an observer of the process from the beginning, I believe the College has been able to accomplish this by keeping itself an open system that embraces perturbation.

Our efforts this year will emphasize targeted, strategic long range planning lending to the setting of directions or general targets for us in the future. As small groups form to address identified targeted areas, they will need everyone's thoughts, ideas, and dreams. The future of our unique efforts depends on our being able to maintain an open, creative, and forward-looking system.

It is late on Sunday afternoon and I am sitting on the front porch watching the clouds (actually rain clouds which is an unusual event this summer). Every now and then I got a glimpse of the blue sky and sunshine behind the dark grey clouds. I'm reminded of the experience of flying on a day like this when you begin the journey with a dark overcast and, after take off, finally break through the clouds to the sunshine and blue skies.

Jerry Benson, Dean

Communication Sciences & Disorders Speech-Language-Hearing Applied Laboratory

The CSD Applied Laboratory provides a variety of services to the community in the area of communication disorders. Full speech-language and hearing evaluations are available for people of all ages. The CSD Applied Laboratory is part of JMU's teaching, research, and community service program. The primary purpose of the lab is to provide graduate students the opportunity to engage in the delivery of clinical speech, language and hearing services under the supervision of faculty mentors. While a great majority of the clientele are children, there is a strong adult population that receives services as well. Not only do clients come to the Applied Laboratory for services, there is also a team each semester that goes out into the community schools and screens children for any problems. If something is noted, they are then referred for a further evaluation, either at JMU or a physician of their choosing. Services are provided free of charge. *For more information, contact Sara Runyan at runyanse@jmu.edu or call (540) 568-6491. **FOR APPOINTMENTS, CONTACT JANIS BABBITT at (540) 568-6491.***

VASE PROJECT

Many of you have asked what the construction is going on below the ISAT/CS building next to the bridge. Jon Miles has given us some information to share with you about the project.

The digging and construction will soon result in JMU joining the elite group of American universities that are adding a renewable energy component to their energy portfolios. It is anticipated that within the next month construction will be completed and a 10-kw solar-electric (photovoltaic) plant will become operational. This project is supported by the Virginia Alliance for Solar Electricity (VASE) program (funded by the U.S. Department of Energy and BP Solar, and administered by Virginia's Department of Mines, Minerals, and Energy) and is funded by JMU.

This energy plant will consist of 225 thin-film photovoltaic panels (15 separate fixtures each supporting 15 panels) and a small out-building that will house the inverter and transformer and other electronics that will convert the low-voltage DC power produced into 450-volt AC power that is compatible with service to the ISAT/CS building. The electrical power generated will be delivered underground to the ISAT/CS building and will contribute toward serving the electrical load of the building.

The operation of the entire system will be monitored continuously, with the data derived to be used by the U.S. and state energy officials and BP Solar. The plant will also serve as a teaching tool for JMU and other Virginia schools. The out-building will offer a display behind glass showing the status of the system (production rate) and pertinent meteorological measurements. More information regarding the installation will follow during the fall semester.



GRANT AWARDS (May-September 2002)

Center for Innovation in Health & Human Services

Healthy Families-Page Co.: Vida Huber & Christopher Nye

Online Health Directory: Vida Huber & Christopher Nye

Youth Prevention Services: Vida Huber & Jane Hubbell

Valley View Weed & Seed: Anita Warner

FY03 State SVMEP: Anita Warner

FY03 Federal SVMEP: Anita Warner

Migrant Education– State Support Specialist: Anita Warner

CSD

Newborn Hearing Screening: Nicholas Bankson

Computer Science

Bio Disc & Digital Ed Project: Mohamed Eltoweissy

Technical & Scientific Competency: Ralph Grove

Into Assurance Scholarship Annex 2: M. Hossain Heydari

ISAT

Summer Undergrad Res. Fellowship: Pauline Cushman

Atlas Project: Joseph Eney

New River Pharm.: Robert McKown

Equip. for Non-Contact Measurement: Jonathan Miles

Wind Powering America Program: Jonathan Miles

National Atmospheric Deposition Program: Wayne Teel

VMIC BIO Contract: Mo Zarrugh

Mine Action Information Center

Workshop Data Integrity: Dennis Barlow

XML Project Review: Dennis Barlow

Ending the Tragedy Conference: Dennis Barlow

Nursing

Deterents to the use of In-home Respite Care: Merle Mast

H-1B Scholarship Program: Merle Mast

Psychology

Educational Consultant FY 2003: Steven Evans

CDC FY 03: Steven Evans

Psychology Internships: Tammy Gilligan

Child Prot News 02-03: Joann Grayson

Social Work

A Faith in Action Program: Marilyn Wakefield



WELCOME NEW FACULTY AND STAFF

Julia Couto (ISAT)- “ I came to JMU to continue my career in higher education in teaching, research, and service”.

Kira Cunningham– Migrant student Liason with the Shenandoah Valley Migrant Education Program

Jane Hubbell– Director of Office on Children and Youth

Cynthia Hunter (Social Work)- “ I wanted to come to JMU to motivate students to look outside traditional resources for information that informs solid and original social work practice”.

Cynthia O’Donoghue (CSD)- “ I came to JMU because the environment allows me the avenues to research health care concerns and to teach therapists in training”.

Claudia O’Neill (Nursing)- “I have respected and admired the quality of nursing education at JMU, so I had no trouble deciding to join the faculty full-time when the opportunity to do so presented itself”.

Connie Peterson (Health Sciences)

Janice Preston (Nursing)

Judith Rocchiccioli (Nursing) - “ I came to JMU because it offered me the opportunity to work with a much smaller, very dedicated faculty group”.

Tiffany Sanders (Social Work) - “I wanted to come to JMU because of its wonderful reputation and the chance to teach and prepare the next generation”.

W.C. Sheets– is our new Physiologist under CISAT Laboratory Operations

Cara Sidman (Kinesiology & Recreation Studies) - “ I came to JMU because I like the fact that the primary focus is on teaching”.

John Singer (Kinesiology & Recreation Studies) - “ I chose to come to JMU because of the willingness of the faculty in my department to put forth great efforts in assisting me with the transition from doctoral studies to being a full time assistant.

Brett Tjaden (Computer Science) - “ I chose to come to JMU because of its emphasis on undergraduate education and because of the remarkable people I met in the Department of Computer Science and Commonwealth Information Security Center during my interview”.

Nancy Wingfield (Social Work) - “ I came to JMU looking for an academic environment where the emphasis was teaching, with support for the research endeavor”.

CISAT Welcomes New Classified Staff

Marissa Crown– Blue Ridge AHEC

Susan Enrich– Blue Ridge AHEC

Sherry Matthews– Human Development Center

Mac McMillan– Technical Support East Campus

Virginia Mennonite Retirement Community Partnership

The JMU Health and Human Services Programs and the Virginia Mennonite Retirement Community established a JMU-VMRC Partnership Council in 2001. Membership consists of four persons from both JMU and VMRC with a senior adult from VMRC bring one of the VMRC representatives. The Council, which meets at least quarterly, has co-chairs which represent each of the organizations.

The JMU-VMRC Partnership Council

has agreed to focus on a set of goals which include working jointly to: enhance health and human services to VMRC residents and the elderly in the local community, promote education and support for caregivers and professionals involved with the care of the elderly, encourage educational experiences for older persons incorporating intergenerational learning when possible and promote understanding of the elderly as a resource, and collaborate in conducting research and facilitate mutually beneficial interdiscipli-

nary clinical and project experience for faculty, students and professionals.

The Partnership invites all who have an interest in working with senior adults, engaging in research and seeking funding to support projects in working with older persons to contact a member of the Council. JMU members are R. Ann Myers (Social Work Dept.), Merle Mast (Nursing Dept.), David Cockley (Health Sciences Dept.) and Emily Akerson (Center for Innovation in Health and Human Services).

CAREGIVER'S COMMUNITY NETWORK

CCN is a partnership between James Madison University and the Central and Western Virginia Chapter of the Alzheimer's Association. This state-funded grant program provides support to the caregivers of persons with Alzheimer's disease in the areas of Page, Rockingham and Shenandoah counties through different types of services by volunteers in the community. We work with local interfaith associations to recruit volunteers and families in need of our services. By receiving our support services caregivers are able to care for their loved ones at home, possibly delaying the need for long-term placement.

The volunteers who are currently participating in this program are JMU nursing and social work students and community volunteers. Volunteers provide companionship and education to the caregiver and the person with Alzheimer's disease. There are no medical or housekeeping aspects to volunteering in this program. To become a volunteer of CCN you do not need to be a JMU student. Please contact CCN for more information about this rewarding experience.

Caregiver's Community Network

PO Box 310

Harrisonburg, VA 22803

Phone: (540) 568-6454

Toll Free: 866-568-6454

Fax: 540-568-6409

Website: [www.socwork.jmu.edu/
CareGivers](http://www.socwork.jmu.edu/CareGivers)

rosekm@jmu.edu

JMU ISAT Professors Teach GIS Systems in Slovenia for Humanitarian Demining

Dr. Helmut Kraenzle and Dr. Glen Gustafson of James Madison University's Integrated Science and Technology Department taught at a Humanitarian Demining Geographic Information System (GIS) and Remote Sensing workshop in Slovenia. The professors represented JMU's Mine Action Information Center and the U.S. Department of State. The workshop consisted of 15 participants, mostly from the Balkans.

Prior to the workshop, the International Trust Fund provided Dr.'s Kraenzle and Gustafson with local geospatial data to approximate as closely as possible the types of data that the students would be working with in their individual countries.

As a result of previous meetings in Europe, Dr. Kraenzle arranged the JMU input in cooperation with the GISDATA Corp. to deliver substantial introductory training to a group of national managers and supervisors of Humanitarian Demining programs. The course consisted of lectures and lab exercises on GIS, geospatial software packages, world projections and ellipsoids, metadata, remote sensing and image processing operations, including various forms of image enhancement and geo-correction of imagery. The week-long course concluded with a presentation by Dr. Kraenzle on project management.

The workshop was conducted at the training facility of the Slovenian National Emergency Services Agency and involved hands-on introductions to GIS and Remote Sensing with practical exercises in these subjects. The training was carried out under the supervision of the International Trust Fund in Slovenia at their headquarters in Ljubljana. The instructional staff for this workshop consisted primarily of Dr.'s Kraenzle and Gustafson along with Janez Avsec and Ivana Pavcnik of the Ljubljana and Zagreb offices of GIS Data Corp. The 15 students came primarily from Slovenia, Croatia, Bosnia, and Herzegovena, Albania, and Azerbaijan.

For more information please contact Margaret Buse, Mine Action Information Center, x82503, busems@jmu.edu.

CISAT SCHOLARS

The purpose of the CISAT scholarship program is to enhance the University's recruitment success by increasing the amount of scholarship awards given to top students and by providing a work component in the department where the student intends to study. The scholarships are targeted at top students with strong academic records and who are leaders in and outside of the classroom. Students are chosen by departments and cannot apply for the scholarship. In addition to their role with the departments, the CISAT Scholars are viewed as ambassadors for the College. Scholarships are awarded for a two year period.

2001-2003

Julia Baer- "The CISAT scholarship has given me a great opportunity to work in the office of my major. I am a social work major and have had the unique experience of learning to know the professors in my department before ever having them as teachers".

Gregory Clark, " I am very honored that my accomplishments in high school and my potential in college were recognized. I feel recognition of this nature helps to encourage students to do their very best to succeed and to prove the University right in selecting them, which I hope and plan to do".

Sarah Flem

Bethany Pittman- " It was a great honor to be selected as the CISAT scholar for the department of nursing. I strive to not only do a superlative job in my work for the department, but to also positively represent it".

Rachel Petrecca- "Working in the Health Science Department has been an incredible opportunity for me as an undergraduate at JMU. Not only do I get the chance to see first hand a lot of what goes on in the health field, but I also am able to learn from the experiences of a wide variety of the faculty and staff."

2002-2004

Robin Corp- It was a great honor to receive such a scholarship especially in light of the new opportunities made available for my education. Unique and valuable experiences are now at my disposal specific to the areas of my interest. It has made the potential to reach my goals here at JMU even more within my reach".

Rachel Crowgey- "I am very excited about the CISAT scholarship. I am looking forward to working on a research project. I think that this opportunity will help me to make career decisions in the next few years at JMU".

Driss Mechiche-Alami

Deanna Yuille- " Being a scholar was unexpected but welcome. Now that I am actually fulfilling my duties I realize what an actual advantage it is especially because I work in the department of my major. And since the number of people is relatively small, it makes it that much better and it gives me some real experience that is useful in ways".



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Visit us on the Web at

www.jmu.edu/cisat/

Comments about this issue and suggestions
for future issues can be e-mailed to Julie
Love at lovejl@jmu.edu

Welcome Back Faculty And Students

HAPPY BIRTHDAY WISHES

October

- 1 - Matt Heck, ISAT
Bonnie Walker, Psychology
- 2 - Penny Critzer, Human
Development Center
- 4 - Teresa French, Madison Medialab
- 5 - Susan Ingram, CSD
- 6 - Nick Bankson, CSD
- 10 - Dennis Barlow, Mine Action
Information Center
Tiffany Sanders, Social Work
- 11 - Suzanne Baker, Psychology
- 12 - Barbara Chandler, Health Sciences
- 13 - William Evans, Psychology
Nancy Harris, Computer Science
- 16 - James Benedict, Psychology
Allan Berg, Computer Science
- 17 - Lynda Capaccio, ISAT
- 18 - Steve Stewart, Health Sciences
- 19 - Craig Shealy, Psychology
- 21 - Merle Mast, Nursing
- 22 - Amy Ozeki, ISAT
- 25 - Kevin Apple, Psychology



November

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

December

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



Nursing Department Receives Training Grant

The Nursing Department has received grant funding for a two-year period that will allow them to admit 10 additional students to the Fall 2002 junior nursing class and to provide tuition assistance to 20 junior and senior nursing students. The funding is provided through H1-B Training Grant, awarded by the US Department of Labor (USDOL) and administered by the Shenandoah Valley Workforce Investment Board. Purposes of the grant are to support professional training in order to decrease the nation's dependency on foreign professional and specialty skilled labor and to reduce the number of H1-B visa applications of foreign workers. Funding is targeted to selected health occupations such as nursing (along with occupations in manufacturing and information technology). During the past few years the nursing shortage has grown to crisis proportions nationwide. Ironically, interest and applications to JMU's nursing program have grown, along with a wait list of students unable to enter the program. The H1-B Training Grant provides much-needed support to "grow" the program and to provide tuition assistance to students seeking nursing as a career. Students who accept the assistance will agree to live and work within the grant region for one year following graduation and licensure as a registered nurse.



Coming Attractions & Department Highlights

October 4

Madison Scholar Presentation,
3:30 ISAT/CS 159, Presented by
Dr. Helmut Kraenzle

October 4-6

Parents Weekend

October 5

CISAT Parents Reception, 9:30-
11:00, First Floor ISAT/CS&HHS
Buildings

October 18

Fall Break— No Classes

October 18-19

Communication Sciences &
Disorders Fall Conference

October 26

Homecoming

October 31

CISAT Staff Appreciation Lunch,
12:00, nTelos Room

November 14

Mosier Fellow Presentation,
Chandler Hall

November 28-29

JMU Holiday
Thanksgiving
No Classes

SCHOOL OF PSYCHOLOGY STRONG AT CONVENTION

Several Psychology Department members went to Chicago in August for the 110th annual American Psychological Association Convention. The four-day convention drew over 15,000 psychologists with knowledge in education, research, and practice.

AWARDS

Virginia Andreoli Mathie-Distinguished Contribution to Education and Training Award
Arnie Kahn-Carolyn Wood Sherif Award and Distinguished Leader for Women in Psychology
Jane Halonen-Presidential Citation

PRESENTATIONS

Harriet Cobb, Beth Hackethorn, Sharon Lovell, Craig Shealy, and Felina Williams

CONGRATULATIONS!!!!!!