

VINCIRE

A newsletter of the College of Integrated Science & Technology

September, 2001

Volume 1, Issue 1



Collaboration
Integration
Support
Achievement
Teaching

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



The Dean's Reflections

As was noted in the College's opening faculty meeting for the 2001-2002 academic year, we plan to enhance our efforts at communication among all facets of the College and at soliciting various perspectives into the planning and decision making processes of the College this year. This newsletter represents one attempt at letting all of us in the College know about many of the exciting happenings that are constantly going on, and at informing you of possibilities for involvement and sharing. We are piloting this effort as an in-house organ for communication. We would appreciate your feedback/reaction to this attempt – content, distribution, effectiveness in accomplishing the goal, alternative ideas, etc.

As the College has grown, it has become increasingly important to find effective ways to support members of our community making connections beyond their specific program or academic unit. This year we will hold a series of topical College faculty meetings hopefully allowing interested faculty and staff to come together to talk about issues of impor-

tance, interest and concern. The first of these will be an open discussion with VPAA Douglas Brown. Other topics planned for the future include organizational structure (schools, departments, units, programs, centers) – what alternatives exist and what best fits our mission/style, evaluation of teaching, discussions regarding the new Faculty Handbook, gCISAT – a center on global education, best practices in evaluating teaching and others that we “would like” hope you will suggest. The Teaching and Learning Group and the Global/International Group will be announcing open sessions for interested faculty. We will also continue important social events that provide the opportunity for people to get to know each other in a more “informal” relaxed environment.

Our committee structure also takes on new meaning. Previously a listing of all the College committees/groups and the charge to each was disseminated to all faculty and staff in the College. I would encourage you to review that listing and identify ways in which you can be a contributing member of the College's community. What I would highlight is that

Inside this issue:	
<i>CISAT Welcomes New Faces</i>	2
<i>Summer Workshops on Visualization</i>	2
<i>Coming Attractions & Dept. Highlights</i>	3
<i>Birthdays</i>	4
<i>Dean's Office Info</i>	4
<i>Malta Trip 2001</i>	Insert

each of our committees offers an opportunity for input into the College's decision-making process. The various perspectives that will come from groups boking at issues/possibilities from different viewpoints will better inform the leaders and leadership groups of the College.

I will consider this newsletter pilot successful if you learn something new about a colleague and follow up talking with him/her about it, learn about a presentation and attend, or anything contained in the document spurs you to make a connection that you would not have likely made otherwise.



CISAT Welcomes Many New Faces



CISAT is pleased to welcome the Psychology and Kinesiology and Recreation Studies departments to our college.

There are also several new faculty joining CISAT this year. Here is some information to help you get to know our new faculty a little bit better. Listed is the Name (current title), degree - school from which degree was conferred, and previous position and employer.

Computer Science - Hugh Daughtrey, Jr. (Visiting Instructor), M.Ed. - University of Virginia, Editor at American Society for Quality; Raymond Schneider (Visiting Assistant Professor), Ph.D. - George Mason University, Direc-

tor of Engineering at Comsonics

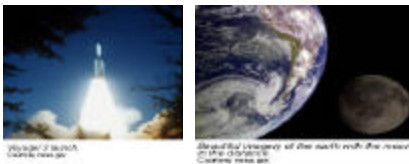
Health Sciences - Jeffrey Konin (Assistant Professor), M.Ed. - University of Virginia & M.P.T - University of Delaware, Faculty at Delaware Tech; Jeanne Wenos (Assistant Professor), Ph.D. in Physical Education - Indiana University

ISAT - Ronald Kander (Professor & Dept Head), Ph.D. in Chemical Engineering - University of Delaware, Assistant Dept Head at Virginia Tech; David McGraw (Associate Professor), J.D. in Law at Georgetown University, Attorney at Hogan & Hartson, L.L.P.; Judith Prewitt (Instructor), Ph.D. in Math & Science - Uppsala University (Sweden), Visiting Professor at Occidental College; Ronald Raab (Associate Professor), Ph.D. in Molecular Biology & Genetics - Texas A&M, Executive Search Consultant at Sanford Rose Associates

Kinesiology & Rec Studies - Peggy Kellers (Associate Professor), Ph.D. - University of Virginia, Administrator/Pastor at Christ Community Church

Nursing - Linda Sobel (Assistant Professor), Ph.D. in Nursing - Virginia Commonwealth University, Assistant Professor at Lynchburg College; Terry Crickenger (Instructor), M.S.N. - University of Virginia, R.N. II at Commonwealth Center for Children & Adolescents

Psychology - Michelle Kiely Briggs (Assistant Professor), Ph.D. in Counseling - University of North Carolina, Director of Counseling Services at Immaculate Heart of Mary School



Summer Workshops Feature Visualization in Science & Math

This summer, several CISAT faculty took part in activities that broadened the scope of academics as we normally see them.

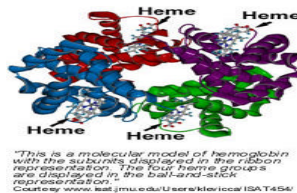
Dr. Robert Kolvoord has been facilitating summer workshops on Visualization in Science and Mathematics for K-12 teachers for the past ten years. This summer, as part of a National Science Foundation summer grant, CISAT hosted two sessions of three-week-long workshops. These workshops are attended mainly by middle and high school science and math teachers.

The teachers get hands-on experience allowing them to use software which aids in the visualization of real data and lets the teachers bring the thrill of dis-

covery to their students. Through this active learning approach, participants learn how to use and make visual representations of data meaningful to their students.

The main goal of these workshops is to spread the use of these technological tools far and wide. Workshop participants are required to give two introductory workshops in each of the two years following their JMU visit in order to reach more classrooms. The participants also receive copies of all the software used during the workshop to take back to their schools.

This summer, there were participants from as far away as Hawaii, Washington, Oregon, and Arizona. A teacher from a Navajo Reservation and two nuns from a



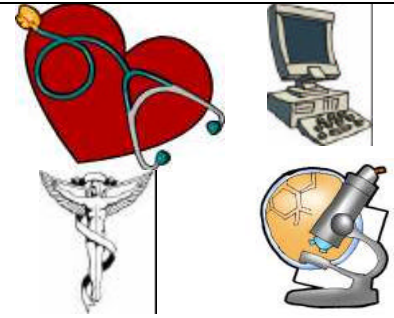
school in Kentucky attended, demonstrating that the program is reaching a wide cross section of teachers from all over the country.

Dr. Kolvoord said getting to know the teacher-participants and seeing their final project presentations on the last day were favorite features of the workshops.

Mike Deaton, Cindy Klevickis, and Jamie Winebrake were other ISAT faculty involved in leading the workshops. Beth Thomas, Erika Hoffman, and Larissa Daily were ISAT students involved in running this summer's workshops. The project continues through 2002 with one more set of summer workshops. Contact Bob Kolvoord (kolvoora@jmu.edu) for more information.



Coming Attractions & Department Highlights



⇒ September 22, 1:30-5:30- TSA (Technology Student Association) Leadership Rally. The rally provides leadership training & competitive event info to Shen. Valley middle & high school tech-ed students.

⇒ September 24, 9:00am - As part of the development of the attachment clinic, Dr. Mary Dozier from the University of Delaware will come to James Madison University. She will be presenting a summary of her research on interventions for children involved in foster care and adult attachment status related to willingness to accept treatment. Attendance at this presentation is capped at 80. Please contact Lori Smilowitz at 8-3882 if you are interested in attending.

⇒ September 24 - the Maltese Ambassador to the U.S. will speak & the students who participated in last year's Malta trip will present on their projects, 4:30 in HHS1301

⇒ October 2 - CISAT Faculty Picnic, Tuesday @ 5:30 - Meadow side of the HHS building. Bring a covered dish w/ enough to share w/ family & friends. Bring lawn chairs & blankets. Barbecued chicken, potato salad, drinks & tableware will be provided.

⇒ October 5 & 6 -The Eastern Conference on the Teaching of Psychology: Notable speakers will be on hand including Ludy Benjamin and Janet Shibley Hyde. Chris Kilmartin's "Crimes Against Nature" will be presented on Friday evening.

⇒ October 10, Wednesday - The Mosier lecture: Dr. Evans will be presenting data on the treatment of young adolescents with ADHD. Everyone is welcome.

⇒ October 12 3:30 C I S A T MADISON SCHOLAR PRESENTATION- Friday, Jamie Winebrake - "Well-to-Wheels Accounting: An Analysis of Total Fuel Cycle Emissions for Conventional & Alternative Fuel Vehicles", HHS Large auditorium (2301). Reception to follow in lobby outside auditorium. Faculty, staff, students (& their parents!-- it's parent's weekend) are welcome

⇒ October 13 10:00 C I S A T PARENT'S RECEPTION, Saturday. First floor lobby between ISAT/CS and HHS Buildings. Faculty participation encouraged

⇒ October 19 & 20 - 2nd Annual Innovations in Clinical Communication Sciences Conference (HHS Building) The conference content is aimed at providing the practicing audiologist & speech-language pa-

thologist w/ knowledge of contemporary issues involved in the identification, diagnosis & management of speech, language, hearing & balance disorders.

⇒ October 18, 19 & 20 - National Consortium of Specialized Secondary Schools of Mathematics, Science & Technology (HHS Building)

⇒ November 2-4 Homecoming

⇒ November 7 - Dr. Robert Resnick, past president of APA and President-Elect of Division 29 (Psychotherapy) will be providing a seminar for the doctoral students. His topic will be "The History of Professional Psychology". All faculty are invited to come. Please contact Craig Shealy if you are interested in attending.

⇒ November 12, 4pm - Kevin Murphy will be making a Visiting Scholars presentation on "ADHD, Academic Accommodations, & the ADA: Myths & Realities" in Anthony-Seeger Auditorium.

*"You can't stop the waves,
but you can learn to surf."*

Jon Kabat-Zinn



Happy Birthday Wishes



September

- 1- Sam Redwine
- 2- Roger Ruth
- 3- Carole Ritchie
- 6- Clete Sellers
- 6- Jen Blais
- 15- Tony Bopp,
Carolyn Ericson
- 17- Ron Kander
- 22- Christine Letsky -Anderson
- 25- Debbie Sutton
- 28- Chuck Runyan
- 29- Geoff Egekwu
- 30- Jack Gentile, Gretta Evick



October

- 5- Annette Lagman,
Susan Ingram
- 6- Nick Bankson
- 10- Dennis Barlow
- 12- Barbara Chandler
- 16- Allan Berg, Diane Barger
- 17- Lynda Capaccio
- 18- Steve Stewart

- 21- Merle Mast

November

- 5- Mal Lane
- 7- Liz Adams
- 8- Mary Handley
- 9- Mike Deaton
- 13- Tonia Hedrick
- 16- Bob Tucker
- 19- Ralph Grove
- 21- Ann Myers
- 24- Rosa Turner
- 26- Cindy Klevickis
- 29- Paul Goodall
- 30- Bob Kolvoord



College of Integrated Science And Technology

CISAT Dean's Office
701 Carrier Drive, MSC 4101
Harrisonburg, VA 22807

Phone: (540) 568-2760
Fax : (540) 568-2747

Visit us on the Web at

www.cisat.jmu.edu



Comments about this issue and suggestions
for future issues can be e-mailed to Emily at

burkhoer@jmu.edu

Office Staff

Jerry Benson, Dean

Vida Huber, Associate Dean

Louise White, Executive Secretary Senior

Julie Love, Program Support Senior

Hope Thompson, Program Support

Ken Parmalee, Business Manager

James Seifried, Storekeeper

JMU & MALTA BENEFIT EACH OTHER

CISAT students have been working cross-culturally in Malta since 1997. In that first year, one student conducted a six-week independent study. The following year, a team of 17 students, led by Dr. Jonathan Miles and Dr. Maria Papadakis, traveled to Malta and participated in four different projects. Since then, a total of 80 students and 6 faculty have visited Malta to work on a total of 19 projects over the last four years. The Malta experience has also expanded to include biotechnology and the environment due to the involvement of Dr. Eileen Cashman and Dr. Rita Teutonico.

The projects students work on are self-initiated and focus on energy, environmental, or biotechnical topics. The project-experiences count for three credits. During their time in Malta, students also participate in technical lectures and tours of technical sites (i.e. an oil- & gas-fired electric power plant, a water desalination plant, botanical gardens, a manufacturing facility). Cultural lectures and tours include the study of Maltese language, culture, history, archeology, and economy. These lectures and tours comprise an additional one credit, making the entire trip worth 4 credits, 3 toward the ISAT major.

Why Malta?, you might ask. Dr. Miles lived in Malta from 1987 to 1988. He worked as a middle and high school teacher at an international school on Malta. In addition to Dr. Miles' familiarity with Malta, the small land area and dense population have created energy and environmental issues with the need for applied technologies. Malta has had



little planning for waste disposal which has resulted in an over-filled, odiferous landfill. There have been poor controls on power plants causing air pollution. The poor air quality is evidenced in certain health issues and building deterioration. There is also a call for new technology to respond to increased demands for energy. Wind power and solar electricity are ideal candidates for implementation in Malta. Building energy efficiency also merits study. Lack of planning regarding the tourist industry has been destroying Malta's beaches. Beach management programs and ecotourism plans are required to halt beach destruction and prevent beach deterioration in the future.

Dr. Miles cited several other benefits associated with the Malta projects. He said this is an excellent work environment for students because it provides technical, hands-on experience within a cross-cultural context. The smaller scale of Maltese government and industry is of importance for three reasons: 1) It is possible to gain access to officials at various levels at the university and in the government, for instance, students are able to interact with university institute heads and even government cabinet members. 2) Students are able to access many levels of industry and technology. Students are also able to interact with high-ranking executives in several companies. 3) There is a measurable impact on the community. This is encouraging to all because it gives concrete evidence that JMU students and faculty are making a difference.

There are generally new projects each year since the projects are student-

defined. In 2001, these were the projects: 1) Building Energy - The main objectives were to develop a strategy for performing energy audits that can be applied to several building construction types, and implement it on either a commercial or industrial site.

2) Environmental Management I - The main tasks were to compile data on all aspects of a recently converted water treatment plant that now serves as a tree nursery, and assist the Gaia Foundation in upgrading and re-designing a visitor center.

3) Environmental Management II - The main objectives were development of beach management plans for two beaches, one having a use-potential biased toward conservation (Ramla beach in Gozo) and a second having a use-potential largely oriented for recreational purposes (Ghadira beach in Malta).

4) Biotechnology - This group worked with the Institute of Agriculture at the University of Malta to investigate the pharmacological potential of medicinal plants in Malta.

5) Solar Photovoltaics - This project included analysis of data that have been collected during the past 5 years to analyze the operation and performance of a grid-connected solar photovoltaic system.

6) Wind Power - This group utilized the simulation program WASP to extrapolate wind data from a long-term study conducted by the Institute for Energy Technology to study the feasibility of wind energy as an option for the island.

In a speech delivered by Dr. Francis Zammit Dimech, the Maltese Minister for the Environment, he highlighted increased "installation of air conditioners" and "excessive lighting" as two sources of heightened energy use in Malta. He also addressed the possible benefits of using energy audits and employing solar power. Dr. Zammit Dimech concluded his address with encouragement for the JMU students stating that their projects would be profitable to environmental sustainability.



The Malta program has many opportunities in which other ISAT colleagues may participate. If you are interested in learning more about Malta and the JMU Malta projects visit the website at “www.isat.jmu.edu/users/milesjj/malta/malta.htm” or contact Jonathan Miles x83044, milesjj@jmu.edu; or Rita Teutonico x82735, teutonra@jmu.edu. Or come hear from the Maltese Ambassador to the U.S. and the students who participated in the 2001 program on Sept. 24 @ 4:30 in HHS1301.



Bits and Pieces

- ◇ Nick Bankson, Communication Sciences & Disorders, & Virginia Andreoli Mathie, Psychology, are to be honored by their respective national professional associations.
- ◇ Did you know that we & William & Mary are the only two institutions in Virginia that have an undergraduate anatomy laboratory with cadavers?
- ◇ Ask Karim Altaï (ISAT) when the hover craft will be cruising around campus.
- ◇ Check out the Biotechnology Manufacturing Lab (McKown, Teutonico, Raab) & the rapid prototyping equipment in the high bay (Kander). Between the two, we hope to be mass producing additional faculty resources soon!
- ◇ Alternative energy sources—watch for the photovoltaic “farm” now under development.
- ◇ Congratulations to Amanda Catron & the Occupational Therapy program faculty on Amanda being selected to receive the Virginia Occupational Therapy Association’s Outstanding Baccalaureate Student Scholarship.
- ◇ The CSD faculty recently had a very favorable site visit from the State Council of Higher Education and their Consultants to review our readiness to offer the three proposed doctoral programs. The faculty were very impressive in presenting their lines of research & our research facilities.
- ◇ Deans Reid & Benson are working with some key interested alumni in developing the Technology Alumni Group (TAG). More to come after the initial meeting of key participants.
- ◇ JMU was buzzing this summer with undergraduates involved in scientific research thanks to funded REU programs in Chemistry & Material Science. Ask Brenda Seal (CSD) about the unique involvement of CSD students with the hearing impaired Chemistry REU participants from Galludet.

TASK FORCES: The rest of the story

Remember the three task forces VPAA Brown established two years ago to look at (1) health & human services, (2) information technology, & (3) integrating the sciences, mathematics, & technology? These groups stimulated a lot of good ideas & discussion that, among other things, has led to the following:

- ◇ The Center for Innovation in Health & Human Services (contact Vida Huber for more information)
- ◇ The Institute for Environment (contact Steve Frysinger for more information)
- ◇ The Masters program in Educational Technology (contact Bob Kolvord for more information)

NAME FOR PUBLICATION

We are looking for a relevant name for this newsletter. Please submit any ideas to Emily Burkholder at “burkhoer@jmu.edu” **THERE WILL BE A PRIZE!**