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The Research Foundation Gives Back

By Linda Dubrawsky



Research Foundation representatives with Cornerstone Manor staff

It has been a long standing tradition at the Research Foundation that individuals, when traveling under the auspices of the RF, bring back the excess samples of toiletries provided to them in their hotel rooms. So, it is not at all unusual for a PI to drop off a purchase requisition accompanied by a bar of soap, or a project staff member to bring us a little bottle of shampoo or conditioner when they drop off their time sheet. Over the course of the year, the RF collects a huge supply of personal care products; but did you ever wonder what happens to all of this free stuff?

We are happy to report that this year Cornerstone Manor was the lucky recipient of all of our efforts. After packaging the toiletries in gift bags, (which incidentally filled three large storage boxes) several RF staff members delivered the goodies. We also took the teddy bears and

“decorations” from our mitten tree. Needless to say, Cornerstone Manor was thrilled to receive our donations and we have since heard from the Director that our gifts were very well received by the residents. So a very special “thank you” to all of our PI’s who participated in this project, and a reminder that we are planning to do this all over again next year.

It has also been a tradition of the RF staff to have “Casual Attire Fridays.” On Fridays, staff is permitted to wear business casual attire; however, staff wearing jeans on those days must pay \$1.00. Each year the collected jeans money is used to benefit a local charity. This year the Research Foundation participated in the Buffalo State College, Office of Student Life Adopt a Family program.

Catholic Charities of Buffalo provided information about each needy family and their wish list for Christmas presents. Melisa L. Dybbro, Assistant Director for Commuter and Minority Student Services, Office of Student Life, coordinated the program on campus. RF staff went shopping with the “jeans money” and was able to buy everything on the wish list for our family of five. Don’t forget, if you see RF staff in jeans on a Friday, we’re raising money for a good cause!

RF Gives Support to Butler Library

By Donna Davidoff and Nancy Frazier

Thanks to a generous allocation from the Research Foundation, E. H. Butler Library has been able to purchase a number of important resources requested by faculty. Like last year, this year's funding has enabled the library to support faculty research needs that could not be met within the library's budget. One of our recent acquisitions is *AnthroSource*, a database with peer reviewed journals, newsletters, and

bulletins published by the American Anthropological Association. We also have added online journals from the Institute of Physics and have ordered two other journals: *Fashion Forecast International* and *Journal of Forensic Studies*. *Journey to Little Rock: The Untold Story of Minniejean Brown Trickey*, a film about a pivotal event in the Civil Rights Movement, is available in Media Services. *Birds of North*

America Online, from the Cornell Lab of Ornithology, and *Children's Literature Comprehensive Database* have also been purchased. Thanks to this allocation, we have ordered several recent faculty publications as well as *Central Search*, which allows patrons to search a wide variety of resources from a single, easy to use interface. ■

KUDOS



Photo by Bruce Fox

Anthony Hotchkiss

Innovation • Creation • Discovery

Anthony Hotchkiss, professor, Technology, received the Promising Inventors Award from the Research Foundation of SUNY at the State University Recognition Dinner Honoring Innovation, Creation, and Discovery in Albany on November 3. Hotchkiss was recognized for the filing of his first invention disclosure of his VAL-CAM CNC code generator. VALCAM automatically produces the code that operates milling machine tools. ■



INTERNATIONAL PROJECTS REPORT

Dr. Tao Tang's Work in Southeast Asia



International Research workshop in Xinjiang Autonomous Region, China, Central Asia.

Dr. Tao Tang's international research work mainly includes field survey and Geographic Information System (GIS) enabled three-dimensional landform, terrain or human made object analyses. Previously, his field studies of limestone towers in Guilin, China yielded new theoretical model of the origin of limestone towers in East and Southeast Asia. The model indicated that the steep sided limestone hills that are numerous in Northern Vietnam, Southwest China, Northern Myanmar, which are close to the Tibetan Plateau, were formed by combinations of surface and underground erosion processes.

Recently, Dr. Tang applied images of Ikonos satellite remote sensing and geostatistic analyses of kriging and co-kriging to study the spatial relations of limestone pinnacle elongation and fault and fracture



Buffalo State College Students at the Great Wall of China.

orientation in the Stone Forest National Park, Yunnan Province, China. The research was published in the journal of "GI Science and Remote Sensing" (GI stands for Geographic Information).



Buffalo State College Students travelling by train in different culture.

This research was partially supported by the SUNY- Research Foundation and Dean's office of the School of Natural and Social Sciences. Most recently, Dr. Tang conducted three dimensional GIS database studies in collaboration with faculty at the Beijing Municipal GIS and Remote Sensing Key Laboratory, Capital Normal University, Beijing, China. One of the dimensions of this research is to capture the three dimensional models of real



Buffalo State College Students field study in Asia.

world features using laser scan remote sensing and digital photogrammetry.

In collaboration with Dr. Kim Irvine and Dr. Stephen Vermette at the Department of Geography and Planning, Dr. Tang conducted GIS training to Cambodian government officials and university faculty in two GIS and Water Resource Management workshops during the summer of 2004 and 2005. He also conducted a summer field course in China with Dr. Stephen Vermette that brought eleven Buffalo State College students to travel in China with a group of Chinese students from Capital Normal University during the summer of 2004. ■

Initiatives in Southeast Asia – Department of Geography and Planning

By Dr. Kim Irvine



Workshop participants, 2005

The Department of Geography and Planning has several ongoing projects in Chiang Mai, Thailand and various locations in Cambodia. This summary focuses on the Cambodian initiatives.



Sampling drinking water at a well

Cambodia is amongst the poorest countries in the world, ranking 130 of 175 countries in the 2002 Human Development Index, as reported by the United Nations. The GDP per capita in 2002 was \$275, while life expectancy

for men is 54 and women is 59. The country is still struggling to recover from recent civil war (1970-75), the Khmer Rouge tragedy (1975-79), and subsequent occupation by Vietnam (1979-89).



Sampling a sewer canal

A generation of technically-skilled people was killed or fled the country and all government institutions (including the university system) were dismantled. Against this background, there is a great need for both training and applied

research to help support environmental and health management decisions.

Our training efforts to date have focused on the delivery of workshops for personnel from the Royal Government of Cambodia agencies (Ministry of Environment, Ministry of Rural Development, Ministry of Industry, Mines, and Energy); faculty and students at the Royal University of Phnom Penh and Institute of Technology, Cambodia; and non-government organizations (UNICEF, Resource Development International – Cambodia). In June, 2004, we offered a one week training workshop on water quality sampling and analysis in the Mekong River and also provided basic training in GIS. Workshop evaluations overwhelmingly were positive, but several of the attendees expressed concern that they still were not prepared to design and conduct their own studies. Our second workshop, offered in August, 2005, focused on drinking water quality sampling and analysis as well as basic and more advanced GIS techniques. In response to concerns expressed at the end of the first workshop, the second workshop was structured in such a way that the participants designed and conducted a drinking water quality assessment program that included the development and testing of a drinking water quality index. Participants of the second workshop have continued to sample drinking water sources in Kandal province, with the goal of using the drinking water quality index to characterize (and visualize in GIS) the safest water sources.

Our applied research has focused on water quality issues related to basic sanitation and waste management, fisheries habitat, and characterization of rural agricultural practices in an effort to quantify economic values of crops and potential environmental impacts. Specifically, we are:

- Monitoring water quality along the Tonle Sap, Bassac, and Mekong rivers to assess the impact that the city of Phnom Penh has on these receiving waters.
- Evaluating the effectiveness of Phnom Penh's wetland system in sustainably treating the city's sewage discharges.
- Developing a meteorological network in Kandal and surrounding provinces.
- Monitoring dissolved oxygen and turbidity in the flooded forest fringe of the Great Tonle Sap lake to assess



how the dynamics of an anoxic zone affects fisheries development.

- Surveying farming families in Kampong Thom province to identify crop value, pesticide and fertilizer practices, as well as basic sanitation and drinking water problems.

All of our research is ongoing, but a more detailed summary can be found in: Irvine, K.N., Murphy, T., Sampson, M., Va, D., Vermette, S.J., and Tang, T. 2006. An overview of water quality issues in Cambodia. Effective Modeling of Urban Water Systems, Monograph 14, W. James, K.N. Irvine, E.A. McBean, and R.E. Pitt, eds., Computational Hydraulics International, Guelph, Ontario. ■

Dr. Zhang Jie Leads Study of Suicide in Rural China

Dr. Zhang Jie, Professor of Sociology and Director of the Center for China Studies is a principal investigator in a National Institute of Mental Health (NIMH) funded study of the risk factors of suicide among rural Chinese women. The four-year \$1,000,000 grant involves collaborators from three universities in the US and three universities in China. The research method-psychological autopsy-will compare the cultural and psychological characteristics of a group of normally-living uih8ywomen to a group of women who have died of suicide in order to determine risk factors.

Over the past 20 years the suicide rate for rural Chinese women under 50 years of age has surpassed that of men, and between the ages of 15 and 24 it is double that of men. This is the



Dr. Zhang Jie in his Buffalo State College office

opposite of the suicide rates in almost every other country in the world, including that of the United States where rates for men exceed that of women in all age groups. In China, under 70% of suicides are attributed to mental disease, while in the West, over 90% may be so attributed. Thus, social and cultural factors and the

value system must be playing a stronger role in suicide in China.

Dr. Zhang Jie says that the findings of the study will be shared with the Chinese government and health care systems so that they may develop prevention measures and policies. ■

Buffalo State Collaborates in Social Welfare Project in China

By Dr. Chris Aviles



The Chinese Delegation and Buffalo State representatives meeting with United Way staff

The Research Foundation, Social Work Department, Center for China Studies, Career Development Center and the Ministry of Civil Affairs of the Peoples Republic of China (Social Policy Research Center) have been involved in an ongoing collaboration related to Social Welfare in China and the USA. In January 2005, representatives from Buffalo State College visited China and representatives from China have visited Buffalo State College to study social welfare and visit American social welfare agencies.

Contacts for the collaboration were made by Dr. Zhang (Buffalo State

College-Sociology Department & China Studies Program) during a May 2004 visit to China. Professor Dexter (Chair: Social Work) taught for a week in the Social Work Department of Capital Normal University in Beijing. Dr. Christopher Aviles (Social Work) met with Mr. Liu Gen, Deputy Director of the Social Policy Research Center of the Chinese Ministry of Civil Affairs. In January 2005 a group from Buffalo State College (Ted Turkle-Research Foundation, Dr. Zhang-Sociology, Dr. Aviles & Ellen Kennedy-Social Work, Stephanie Zuckerman-Aviles-Career Development Center) visited China to participate in a signing ceremony that

formalized the collaboration agreement. Ministry of Civil Affairs representatives included Mr. Xie Jiachen (Division Chief of the Shanghai Civil Affairs Bureau), Mr. Zhu Yong & Mr. LiuGenguang, Deputy Directors of the Social Policy Research Center.

Mr. Zhu Yong (Deputy Director of the Social Policy Research Center) took the Buffalo State College delegation to social welfare agencies in three areas of China; Beijing, Hainan Island, and Shanghai. The agency visits included an inpatient psychiatric hospital, community health clinic, community services agency, neighborhood community cen-

Continued from page 6

Buffalo State Collaborates in Social Welfare Project in China

By Dr. Chris Aviles



Ted Turkle presents gift to Mr. Liu Genguang



Chris Aviles, Ellen and Ted Kennedy enjoying the Chinese food



Dr. Zhu Yong presents a gift to Dr. Murial Howard

ter, nursing home, day care center, and a foreign language institute. In addition to touring the Forbidden City in Beijing and the Great Wall of China, the Buffalo State College group was treated to some of the most outstanding and best authentic cuisine in China.

In September 2005, Mr. Zhu Yong brought 10 members of the Ministry of Civil Affairs to Buffalo State College for a week. The Chinese delegation spent time on campus in workshops offered by Patrick Dexter, Dr. Christopher B. Aviles

and Ellen Kennedy, that addressed models of social welfare with emphasis on the American Social Welfare system.

The Chinese delegation also visited public, private and non-profit agencies in the Buffalo area. The agencies included Connors Children's Center, Weinberg Campus, Amherst Senior Services Center, Stutzman Alcohol Treatment Center, the United Way of WNY, Federated Neighborhood Centers and the Erie County Department of Social Services. The Chinese delegation also

enjoyed a tour of Niagara Falls, including the Maid of the Mist boat trip. Although authentic Chinese and American food is very different, the delegation also enjoyed an American Pizza & Chicken Wing party at Anchor Bar, American BBQ, and two formal dinners at the Buffalo Club and Tsunami Asian Restaurant.

Another group from Buffalo State College will return to China in the summer of 2006. ■

Design Professor Studies Etruscan Metal Design

By Steve Saracino



Examples of Etruscan metal design

From 1997-1999 I lived in Siena, Italy where I directed an Overseas Program for the State University of New York. While there I visited numerous Etruscan cities, their necropoli, and museums and began to study Etruscan metal artifacts via analyzing the technical and aesthetic idioms employed by their artisans.

I was intrigued by the quality of the craftsmanship and the surface design nuance of the artifacts that included strong emulative associations that paralleled the formal visual conventions utilized during the Greek epochs. The parallels were astounding but not surprising, as the Etruscans were locked in a parallel universe where Etruscan artisans often emulated visual conventions from those epochs. Nonetheless, as I delved deeper into my research, I became intrigued with one particular art style that has been labeled the "flamboyant" style by the author Otto J. Brendel in his book, "Etruscan Art." It

seemed to me that this particular "style" relied more on intuitive and "purely" Etruscan design conventions. They tended to exhibit information which categorically moved them away from the design conventions utilized by the Greeks that were transported to Italy through trade and by the artisans that colonized Italy during these epochs. The style seemed to be more inventive and truer to the Etruscan soul. It incorporates a more direct intuitiveness to things Italian than to things Greek. I found it honest and exciting and in need of further investigation. I have returned three times to the regions in Italy where these artifacts were unearthed, trying to formulate a more concise idea of how they evolved and try to comprehend how this style was arrived-at without an emulation of pervasive Greek conventions. To this end, I have spent time examining the collections in Tarquinia, Cerveteri, Todi, Tuscania, Vulci, Florence, Siena, Chiusi, and the extensive collec-

tions of artifacts in the Villa Giulia and the Vatican Collection, in Rome.

Upon my return to the USA in 1999, I wrote a course seminar outline for a study of Etruscan metal work and taught the seminar for three successive summers at the Chautauqua Art Institute in Chautauqua, New York, and given lectures at the Buffalo Public Library. I also have incorporated Etruscan metal-smithing techniques into my own work and introduced these techniques into my teaching curriculum. My more recent work includes imagery that embraces both Etruscan and Tuscan iconography, especially the use of the boar (Etruscan), black roosters, and cherubs. I am presently writing a scholarly article for possible publication and designing a body of work that continues to include ancient Italian iconography. ■

Grant Awards August-December 2005

August 2005

Karen Bailey Jones – *Aspire – Cooperative Agreement 2005-2007*
\$75,256

The SUNY College at Buffalo Speech Language Hearing Clinic will continue to provide speech-language services and supervision of Buffalo State College graduate students at Aspire (formerly United Cerebral Palsy Association). The Clinic will use Aspire as a placement site, offering clinical experiences not currently available on the Buffalo State campus to graduate students in Speech Language Pathology.

Jean E. Richardson – *New York State Archives Documentary Heritage Program – Western New York Planning and Survey Project*
\$2,719

The objective of this project is to develop a strategic plan of action, methodology, and related survey forms; to conduct preliminary surveys to identify and prioritize Western New York individuals, organizations, and/or companies holding historically significant records; and to conduct focused documentation surveys and the related processes needed to organize and create detailed inventories of those records, gathering information on their origin, content, physical characteristics, and other traits. This project is envisioned as the first phase in a series of projects intended to enhance the role of the Monroe Fordham Regional History Center as a regional public resource for access to local history collections. Project funds will assist the Center in meeting its mission as an asset to the broader community of identifying, collecting, preserving and making available archives and manuscript collections from the Buffalo-Niagara region that can be used in education to promote a deeper understanding of the many ways in which regional history makes a difference in the lives of people everywhere.

Gary S. Solar – *National Science Foundation – How is the Granite Melt Flow Network Recorded in Migmatites and by Associated Granite Plutons?*
\$76,895

This research will instill a better understanding globally of melt-transit through the crust in orogens, as well as the capacity to use the results to better constrain regional tectonics. Such studies are perfectly suited for undergraduate student projects that operate on single-semester to single-year scales.

This study will primarily involve a team of undergraduate students from two institutions, Buffalo State College and SUNY Oswego. The focus on team participation in

a larger project allows students to immediately reap the benefit of being involved in a significant piece of high-level science. This structure will allow the students to work in teams while conducting field and laboratory work and see how their individual project is an important component in the larger effort.

Donald Patterson – *U.S. Department of Education – Upward Bound*
\$340,337

This is an award to continue the Upward Bound Program. Upward Bound provides services to low income students, assisting them to continue in and graduate from secondary school and enroll in post-secondary education programs.

September 2005

John Siskar – *WNY Women's Fund – Girl Power Program*
\$47,501

The Center for Excellence in Urban and Rural Education (CEURE) will work in collaboration with the Buffalo Federation of Neighborhood Centers (BFNC) to deliver a full range of services to girls at the Herman Badillo Bilingual Academy (School #76) in the Buffalo Public School system, intended to help these girls increase their academic success by addressing a variety of academic and social needs. Buffalo State College teacher education majors will serve as tutors for 7th and 8th graders during their Math or English/Language Arts class and/or lab period. Students will develop skills to meet New York State standards through one-on-one and small group instruction. The interns will work with students individually and in small groups to increase instructional opportunities. In addition, participants will attend weekly 2-hour, after-school sessions in a life skills enrichment program that will focus on the world of work. The range of activities will include: a) writing "vision statements" that will define their perception of themselves and their goals at the start of the program and again at the conclusion; b) workshops on core life skills (e.g., etiquette, resume preparation, goal-setting, budgeting); c) computer and other independent research projects on jobs; d) interviewing and interacting with working women to learn of their education and work experience; e) educational and recreational field trips; f) visits to work sites appropriate to the girls' goals.

William F. Wieczorek – *Health Research Inc. – Hard Core Smoking RP-6 #2 – Harm Reduction Survey Follow-up*
\$60,510

Dr. William Wieczorek will lead the survey work on this study being done by Health Research, Inc. – Roswell Park Cancer

Institute Division. The purpose of this study is to assess motivation, dependence, and other factors, in a national cohort of hard-core smokers in order to gain further insight into the phenomenon of hard-core smoking and potentially related phenomena. This study will assess smokers' perceptions and misperceptions about various nicotine delivery devices and their use of various harm-reduction strategies.

Kathy L. Wood – *Lackawanna City School District – 21st Century Community Learning Centers*
\$60,000

This is a continuation of a subcontract from the Lackawanna City School District to place pre-service teachers enrolled in teacher preparation programs at Buffalo State College as interns in the Lackawanna School System. Services provided by these interns include remedial and enrichment activities in four core disciplines: English/Language Arts, Math, Science, and Social Studies.

N. John Popovich – *D'Youville College – Gear-up II – Year 4*
\$100,440

This is a continuation of Dr. Popovich's Gear-up II subcontract from D'Youville College. The mission of GEAR UP is to provide services and address the needs of students at risk of educational failure by galvanizing community resources into a coordinated system that promotes high expectations for children by providing low-income students with the skills, inspiration and preparation needed to pursue and succeed in post-secondary education

Yolanda N. Belle – *U.S. Department of Education – Talent Search*
\$289,587

This is a continuation of Buffalo State College's Talent Search Program, a program designed to identify qualified youths with potential for education at the postsecondary level and encourage them to complete secondary school and undertake a program of postsecondary education. Talent Search projects also publicize the availability of student financial assistance for persons who seek to pursue postsecondary education and encourage persons who have not completed programs at the secondary or post-secondary level to reenter these programs.

Darryl C. Carter – *New York State Education Department – STEP*
\$116,047

This is a continuation of the Science and Technology Entry Program (STEP) at Buffalo State College. The purpose

of the STEP is to prepare historically under-represented or economically disadvantaged secondary school students for entry into post secondary degree programs in scientific, technical, health-related fields, and the licensed professions.

Naomi Diaz-Slack – *New York State Education Department – CSTEP*
\$91,034

This is a continuation of our Collegiate Science and Technology Entry Programs (CSTEP). The purpose of CSTEP is to increase the number of historically underrepresented and economically disadvantaged undergraduate and graduate students who complete preprofessional or professional education programs of study that lead to professional licensure and to careers in mathematics, science, technology, and health-related fields.

Florence D. Johnson – *U.S. Department of Education – Student Support Services*
\$270,844

This is a continuation of Buffalo State College's current Student Support Services Project. The Program will continue to serve 200 students annually who meet the guidelines of being low income and/ or first generation, or who are individuals with disabilities. A comprehensive array of services will be offered to participants in order to achieve the overall goals of increasing the retention and graduation rates of participants. Services offered by the program include: orientation to campus life, academic advising, financial aid counseling and assistance, study skill classes, peer and professional tutoring, peer and professional mentoring, supplemental instruction, assisted labs, personal counseling, career counseling, graduate and professional school counseling and mentoring. In addition, academic instruction is offered in collaboration with the Academic Skills Center in Reading, Writing, Mathematics, and English. Participants will be offered optional services of cultural activities and special topic workshops.

Robert N. Spaner – *Erie County Department of Social Services – Erie County Component 1 & 2 – Master's/Bachelor's Degrees, \$413,795 and Erie County Component 3 & 4,*
\$617,321

These projects will provide Erie County Department of Social Services staff opportunities to improve their professional competence and skills, to develop better trained and more valuable employees, and thus benefit those who are interested in upward and lateral mobility within the department.

October 2005

Stephen Vermette – *National Geographic Education Foundation – Support for Activities of the New York Geographic Alliance and the Center for Geographic Learning*
\$100,000

Funding for this project will be used in part to maintain the Alliance Office located at Buffalo State College (host institute) and dissemination tools (i.e. web page and newsletter). An active office will also enable the Alliance to take advantage of potential collaborations (i.e., working with the Chesapeake Bay outreach or with the Michigan Alliance in supporting geography teacher education), as well as monitoring and responding to state policy issues related to geography education. In addition, funding will be used to support Geofest 2006 in New York City (with a strong public awareness component), a series of proposed workshops across each of our nine regions, and a pre-service teacher outreach program. The Alliance's partnerships with the Center for Geographic Learning (CGL) at Hunter College in New York City, will afford the opportunity to better serve teachers in Manhattan. Funding will allow for the following activities: Geofest 2006 (NYC), development of teaching materials for NYC teachers, in-service workshops (six in NYC and four in other regions), development of a state atlas, a revamping of the "Geography Lessons for Teaching" series, planning an Erie Canal summer institute, and a pre-service program to attract new teachers into geography. Most important, this project offers an opportunity to tighten links between the NYGA and the Center for Geographic Learning.

John Siskar – *M & T Bank – Westminster Community Charter School After-School Program*
\$98,558

This continuation contract will implement, staff and operate an after-school program at Westminster Community Charter School (the "After School Program") to provide supplemental academic instruction in reading and math as well as providing other activities for Westminster Community Charter School students, in a facility provided by Westminster Community Charter School.

William Wiczorek – *Preventionfocus Inc. – Preventionfocus Evaluation*
\$6,400

The Center for Health and Social Research (CHSR) will work directly with management and staff to ensure that reliable and valid methods are utilized to obtain information relevant to the implementation, assessment, and evaluation of prevention services provided by Preventionfocus.

The purpose of this project is to ensure that Preventionfocus is obtaining and analyzing data that are required to document both the provision of services and the impact of those services.

Jeff Marsha – *Target – Artsplorations*
\$1,000

The Artsplorations project will contribute to keeping the arts alive by educating children and exposing them to the arts. Artsplorations will offer important exposure to live theatre for children, many of whom would not have the opportunity to attend such performances otherwise. Many of the performances are based on well-known children's books, so the teachers and the children will be encouraged to follow up by reading the book, thus developing literacy skills. Children will also learn important social skills while learning how to behave at the theatre.

Tom Giambrone – *New York State Education Department – Teacher-Leader Quality Partnerships 2005-2006*
\$257,846

This is a continuation award. The purpose of this teacher preparation and professional development project is to prepare and support educators to help all students achieve high standards of learning and development in Pre K-12 through its project components of English Language Arts, Math and Science. This project supports the extension of the Urban Teachers Network to include teachers in the areas this grant has targeted. The Urban Teachers Network is a consortium of identified exemplary teachers, grades K-12, from local urban schools who work directly in partnership with BSC teacher education programs. It provides a mechanism for in-service and pre-service teachers to network, communicate, and share knowledge and resources.

N. John Popovich – *Buffalo Public Schools – Career Fairs for CTE (Career and Technical Education Program)*
\$15,000

Career Fairs represent 16 career clusters and over 200 occupations where participants will be provided with interactive career exploration activities. Occupational outlooks, educational outlooks and salaries in each career area will also be provided. Using a hands-on approach, each career area provides participants with an opportunity to talk to professionals in each field and engage in interactive activities in each cluster.

November 2005

John Roden – *Good Schools for All – Good Schools for All – Literacy*
\$55,032

The Center for Excellence in Urban and Rural Education (CEURE) will develop a comprehensive inventory of current literacy services within the metro Buffalo area. The design calls for the use of an established sample frame incorporating a list of approximately 250 providers supplied by Project Flight of Buffalo State College. A question pool will be developed with input from Good Schools for All and piloted on a small respondent sample. The completed sample database and question pools will be developed into a Computer Assisted Telephone Interview (CATE) script database. After call center operator training, a campaign will be undertaken to contact each agency, verify and correct contact information and collect data. Data will be encoded as open and closed-ended items as appropriate, with free text entry in memo fields. Final database will be delivered to contractor in mid-November. A final report and database front end will be developed during the early part of December 2005

December 2005

John Roden – *Good Schools for All – Good Schools for All – Funding Analysis*
\$20,000

The Center for Excellence in Urban and Rural Education (CEURE) will conduct a funding analysis of state, federal and private sources of grant and contract resources currently employed for increasing literacy in the Buffalo area, in addition to potential new sources of funding. This analysis will develop a comprehensive database of existing and potential funding for family-based and other literacy efforts in the community. We will develop a schematic to clarify complicated funding streams, especially those flowing from the federal government through the state to the schools and municipal agencies. Every effort will be made to make the relationship between funding and agencies clear, concise and cogent. At the conclusion of the project, Good Schools for All will have a comprehensive database of current and potential grant information, including hyperlinks to electronic resources, plus a detailed financial analysis of the sources and uses of various funding mechanism within the metro Buffalo region.

2006 INCENTIVE FUND AWARDS

The Research Council provides funds to assist faculty in pursuing preliminary work necessary to prepare a competitive grant proposal. In the past, over 80% of recipients subsequently submitted competitive grant applications. Fall 2005 recipients are:

Lydia Fish – *Catalog for Folklore Archives*
\$3,300

Students of the project director have produced approximately 4500 annotated fieldwork projects, which cover a wide variety of local and regional folklore, including ethnic, occupational, neighborhood, familial, and religious material. Butler Library has agreed to accept the collection as part of its archives; however, in order to make this collection available to scholars, it must be catalogued and indexed. This project has been started and these funds will be used to hire a research assistant to complete the catalog.

Joonyeong (Jamie) Kim -- *Molecular Level Investigations of Interfacial Water Structures Involved in Ice Nucleation and Protein Adsorption*
\$6,980

The orientation and ordering of water molecules associated at various biological interfaces is known to trigger many physical and chemical phenomena in living organisms. However, details of interfacial water structures and their roles in mediating those physiological processes are still beyond our understanding. The research projects in this proposal focus on molecular level investigations of interfacial water structures involved in ice nucleation and protein adsorption.

Randal J. Snyder – *Effects of cold temperature on fatty acid dynamics of freshwater alewives*
\$6,855

Alewives represent a critical link in Great Lakes food webs and are often the most important forage species present. Salmon and trout populations in the Great Lakes are strongly influenced by changes in alewife population. This project will determine how dietary lipids affect specific tissues of alewives exposed to chronic cold temperatures. This will be a first step towards isolating the specific physiological causes of low temperature mortality in this species, which ultimately will improve our ability to model and predict alewife die-offs.

John H. Song – *A Comparative Study of the U.S. and Chinese Criminal Procedural Law*
\$7,000

This incentive grant project will support the collection and analysis of preliminary data on this important topic. Data will be collected and analyzed through collaboration between the principal investigator and co-principal investigators at the Department of Law, Capital Normal University in Beijing, China. The comparative studies of Chinese and American criminal procedural laws will help China implement its commitment to judicial integrity and human rights.

William F. Wieczorek -- *Pilot Recruitment: Problem Behavior, Peers, and Motivational Aspects of Temperament in Substance Use*
\$7,000

This funding will be used to conduct a pilot study of the recruitment procedures for a project, previously submitted to the National Institutes of Health (NIH), to study the initiation and longitudinal development of problem behavior, including alcohol, tobacco and drug use, among youth in Erie County. While the NIH application was scored very highly, reviewers raised a number of concerns regarding the feasibility of the recruitment procedures. This pilot work will be incorporated into our NIH grant application resubmission.

Tom Giambrone – *Preservation of the New Mathematics Materials*
\$5,049

This proposal is to establish the necessary resources to seek funding to establish a library of digitized materials from the historical period in the United States known as the New Math Era. The library will be a singularly significant source of historic materials surrounding one of the largest attempts of the federal government to reform school mathematics and one of the largest educational reform movements in the U.S. regardless of content.



THE RESEARCH FOUNDATION
The State University of New York



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THE RESEARCH FOUNDATION
The State University of New York

THE RESEARCH FOUNDATION POST

Research Calendar

February

- 13 Institutional Review Board
- 27 Research and Creativity Council

March

- 2 Institutional Animal Care Use Committee Meeting
- 7 National Council of University Research Administrators 2006 Video Workshop Series, Grants.Gov - Working Towards a Common Vision, To enroll contact Gina Game, gameg@rf.buffalostate.edu
- 13 Institutional Review Board
- 16 Deans'/Associate Deans' Meeting
- 27 Research and Creativity Council

April

- 6 Deans'/Associate Deans' Meeting
- 10 Institutional Review Board
- 17 Research and Creativity Council
- 24 Project Directors' Recognition Reception

RESEARCH FOUNDATION, OFFICE OF SPONSORED PROGRAMS

ADMINISTRATION (Room 17)

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