Researchers’ Informational Forum
At-a-Glance
Spring Semester 2015

Hampton University’s First in the World (HU-FITW) Advances the Mission to Reinvigorate STEM Education

Advanced Physical Modeling and Simulation for 21st Century Scientist

February 2015

January 2015

Time Management: A Faculty Perspective and the Introduction of 3-New Mathematical Equations

February 2015

March 2015

U.S. Patent and Trademark Office

April 2015

Aging and Neurodegenerative Diseases, U.S. Department of Veterans Affairs

May 2015

Membership Engagement MSI STEM Research & Development Consortium
Finding the Time for Time Management

Submitted by: Dr. David Torain
Associate Professor, Department of Mathematics

January 2015

Time Management is a part of our character. Time management is the development of processes and tools that increase efficiency and productivity. However, time management doesn’t “just happen” for anyone – it is a skill that must be worked on and that most people find to be a life-long challenge.

Time Management goes further than just getting our work done. With good time management skills, we can become proactive and start working towards achieving specific goals in life rather than becoming reactive. Successful people are those individuals who strictly follow their set time to accomplish specific goals in life. It takes one’s self-discipline to practice proper time management. People learn to manage their time properly once they see the benefits. Once we practice proper time management in our daily activities, we will notice enormous improvements in our work, we will notice an exceedingly well-organized routine. You will spend less time in each task since you know exactly what is expected at the end of the day. Following your daily routine will also assist you in pursuing other goals of your life. Time management will only be achieved by setting a well-organized routine. You will notice improvement in your work and your home life as well as career.

It is vital to keep track of the places and situations where we spend most of our time. By doing this, we will be able to identify events that waste most of our time during the day. This will also help us to identify the parts of the day that require more attention and the ones that need less of our time. With a well-managed routine, it is possible to curb all the stress involved in a hectic day. We should set all schedules in place before the start of the day to avoid wasting time when undertaking various tasks. A stringent day will become an affair of the past when we strive to plan a proper schedule of activities in our daily routine. Besides improvements in our work, we will notice an exceedingly improvements in self-confidence as well as self-esteem, since we will have mastered all the tasks at hand before start of the day. Chapman and Rupured give a list of 10 Strategies for Better Time Management [1].

10 Strategies for Better Time Management

1. Know How We Spend Our Time
   • Keep a time log.

2. Set Priorities
   • Managing our time effectively requires a distinction between what is important and what is urgent.

3. Use a Planning Tool
   • Will improve our productivity.

4. Get Organized
   • Get rid of clutter.

5. Schedule Our Time Appropriately
   • Is not just recording what you have to do.
   • Is also making a time commitment to the things we want to do.

6. Delegate: Get Help from Others
   • Identify tasks that others can do and then select the appropriate person(s) to do them.

7. Stop Procrastinating
   • Try breaking down the task into smaller segments that require less time commitment and results in specific, realistic deadlines.

8. Manage External Time Waters
   • Gossiping on the phone.
   • Hanging out in someone else’s office doing nothing.

9. Avoid Multi-Tasking
   • We lose time when switching from one task to another, resulting in a loss of productivity.

10. Stay Healthy
    • Scheduling time to relax, or do nothing, can help us rejuvenate both physically and mentally.

Every day we should have a routine to acquaint ourselves with our daily activities. After getting used to our daily routine, we will be able to complete daily tasks more easily. You will spend less time in each task since you know exactly what is expected at the end of the day. Following your daily routine will also assist you in pursuing other goals of your life. Time management will only be achieved by setting a well-organized routine. You will notice improvement in your work and your home life as well as career.

Success is associated with good “Time Management,” which calls for self-discipline when undertaking tasks. If you change you, you can change your outcome.

Reference

Researchers’ Informational Forum - At-a-Glance

HBCU-RISE Hampton University: Advanced Physical Modeling and Simulation for 21st Century Scientists

Submitted by: Dr. William Moore  
Associate Professor, Department of Atmospheric Sciences  
February 2015

There is a category of research funding specifically intended to build up capability through the acquisition of scientific equipment. This is often referred to as infrastructure funding, and is a vital counterpart to the funding that supports research activities. Most infrastructure programs are cross-disciplinary, and most of the major funding agencies provide one or more of these programs. At the NSF, the primary infrastructure program is the Major Research Infrastructure (MRI) program (http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5260).

According to the NSF, “The Major Research Instrumentation Program (MRI) serves to increase access to shared scientific and engineering instruments for research and research training in our Nation’s institutions of higher education, not-for-profit museums, science centers and scientific/engineering research organizations. The program provides organizations with opportunities to acquire major instrumentation that supports the research and research training goals of the organization and that may be used by other researchers regionally or nationally.”

The MRI program supports large research equipment acquisitions that cannot reasonably be funded through other programs. A similar program exists as part of the NSF Centers of Research Excellence in Science and Technology (CREST) program. This program is known as HBCU-RISE (Research Infrastructure for Science and Engineering). Recently, Hampton University was awarded an HBCU-RISE grant for one million dollars to acquire and install a large parallel computer cluster for high-performance computing (HPC), with Dr. William B. Moore as PI.

The HBCU-RISE project entitled: “HBCU-RISE Hampton University: Advanced Physical Modeling and Simulation for 21st Century Scientists” was not the first HBCU-RISE project submitted by the proposal team. In 2012, a larger team (including faculty from Atmospheric and Planetary Science, Chemistry, Math, and Computer Science) submitted a similar proposal to fund a parallel computational cluster, but that proposal was not successful. One of the primary weaknesses identified by the reviewers was the lack of a unifying research focus.

After receiving a debrief from two members of the NSF program staff, the team was shrunk to APS and CS faculty, and the research focus was narrowed to geophysical fluid dynamics. The emphasis on PhD production was increased, and the goal of providing an on-ramp for faculty researchers getting into HPC-enabled fields.

The Hampton University Parallel Infrastructure for Research, Analysis, Training and Education (PIRATE) cluster will be a 48-node parallel computer connected in a 3-D torus configuration. Each node has two 8-core Xeon CPUs and two 61-core Xeon Phi accelerators. The nodes are interconnected with a novel network (RONNIEE Express) enabling shared-memory operation, with nearest-neighbor latencies comparable to local memory access. Peak performance should be in excess of 50 TFlops for applications making efficient use of the accelerators. The PIRATE cluster will be housed at the research building of the National Institute of Aerospace who will provide security and physical support for the installation.

The purpose of the HU PIRATE cluster is to increase Ph.D. production and enhance research competitiveness in the fields of science and engineering. Use of the cluster for proof-of-concept and preliminary computations by HU faculty is free, while production users may join the cluster user community by contributing hardware or logistical support. The cluster is managed by an advisory board including the PI, Dean Lowe, and Drs. Samuel and Pierce. government where the airline is a member state carrier and the final destination for the traveler, is within that member state. As of 2011, the four countries/regions that hold an Open Skies Agreement with the U.S. are Australia, Switzerland, Japan, and the European Union.

For more information on the Fly America Act, the Open Skies Agreement, or code sharing, please contact the General Services Administration (GSA) via phone at (800) 333-4636 or online at www.gsa.gov.
Hampton University’s First in The World Partnership (HU-FITWP) Grant Project

Submitted by: Dr. Ira J. Walker
Project Director for HU-FITWP

February 2015

On October 1, 2014, Hampton University was awarded $3.5 M over a four-year period from the U.S. Department of Education under the sponsorship of the First in the World Program. The proposal submitted from Hampton University is entitled The HU-FITWP Partnership Project.

This grant affords Hampton University a wonderful opportunity to provide this nation with a skilled cadre of future professionals skilled in the disciplines of Science, Technology, Engineering and Mathematics (STEM). This goal will be achieved by employing innovative teaching methods with technology and social networking to engage the students in their respective disciplines.

Students majoring in the STEM disciplines will be introduced to a new paradigm of learning as it features student-centered learning, project-based learning, near peer-mentoring and living-learning communities. The common element of these components is the fact that the students will take more ownership of their learning experience and will approach learning from a more active and participatory framework.

The project will implement what has been called the 3-1-1 model to positively affect the learning of the students. During the first three weeks of a major unit in the sequence of topics covered in the class, the students will learn via the flipped-classroom approach, whereby they will be given selected on-line resources including videos to study and view. When they meet the following class period, an assessment will be administered to evaluate their level of understanding of the viewed materials. During the fourth week, the students will learn procedures from either the Microsoft Excel or MATLAB software package to reinforce what they have learned during the first three weeks. Finally, during the fifth week of that unit, they will be required to use the software techniques they have just learned to complete a real-world project.

One of the major complaints of students learning mathematics is their perception that what they are learning in the classroom is not relevant. This project hopes to dispel this notion by having the students work on real-world projects with themes that run the gamut across all of the STEM disciplines.

To help facilitate this goal the project is fortunate to have several dedicated partners who will provide internships, employment opportunities and enrichment experiences that will benefit our students. These partners include Northwestern University, Accenture, Achievable Dream Academies, Joint School of Nanoscience and Nanoengineering, and the From one Hand to Another Foundation.

To date, the course redesign has been fully implemented for the mathematics courses, new computers have been delivered, additional faculty and staff have been hired and plans are underway to renovate the second floor of the Harvey Library to have it serve as the Computer/Math Emporium, which will be a state-of-the-art technology center for students.
Source of Authority

Patents and Copyrights
- "The Congress shall have the power... To promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries" (U.S. Const., Art. I, Sec. 8, emphasis added)
- First patent statute and first copyright statute enacted in 1790 during the first Congress Trademarks
- "The Congress shall have the power... To regulate commerce with foreign nations, and among the several states"
- First federal statutes were enacted in 1870 and 1881

Trademarks

Common Law
- Protection derived from use (™) State Registration
- Registered with one or more U.S. states Federal Registration
- Registered in the U.S. Patent and Trademark Office protects against confusion as to the source of goods or services, not from competition that does not confuse customers

Registered Trademarks
- Right to enforce nationally and bring legal action in federal courts
- Use of federal Trademark registration symbol ®
- Right to record mark with Customs
- Serve as basis for foreign filing
- Publication in U.S. Trademark database

Copyright
- Protects "original works of authorship" including literary, dramatic, musical, artistic and certain other intellectual works fixed in a tangible medium.
- Library of Congress administers registration; USPTO advises the Executive branch on intellectual property issues including copyright.
- © symbol can be used without registration.

Copyright Registration
- Copyright protection is secured automatically upon creation (fixation). A work is "created" when it is fixed in a copy for the first time.
- No publication or registration is required. (There are, however, advantages to registration.)

Trade Secrets
- Any information that derives economic value from not being generally known or ascertainable
- Can be formulas, patterns, compilations, programs, devices, methods, techniques or processes
- Protection stems from common law dating to the 1800’s
- All states have some sort of trade secret protection
- Most laws based on the Uniform Trade Secrets Act
- In 2014 Congress considered, but did not pass, federal versions of the UTSA

Why Trade Secret?

Trade Secret Basics:
- Protects commercially valuable proprietary information, e.g., formulas or business information that gives a competitive advantage
  - Customer lists
  - Product formulations
  - Search algorithms
- Trade Secrets are not generally known and must be subject to reasonable efforts to preserve confidentiality

Patents
- Right to exclude others from making, using, selling, offering for sale or importing the claimed invention
- Right conditional on inventor applying for, and USPTO issuing, a patent
- Strict time limits to apply for a patent
- Limited term
- Territorial: protection only in territory that granted patent; NO world-wide patent

Why Get a Patent?
- A patent can be
  - Used to gain entry to a market
  - Used to exclude others from a market
  - Used as a marketing tool to promote unique aspects of a product
  - Sold or licensed, like other property
Aging and Neurodegenerative Diseases, 
U.S. Department of Veterans Affairs

Submitted by: Dr. Tshaka Cunningham,
Scientific Program Manager

April 2015

Mission of VA Research and Development
To discover knowledge and create innovations that advance the health and care of veterans and the nation.

Overview
The VA Historically Black Colleges and Universities (HBCU) Research Scientist Training Program was created to increase the number of underrepresented minority scientists participating in VA research. The centerpiece of this program is an HBCU focused Career Development Award (CDA-2 mechanism) to support early career scientists who are affiliated with HBCUs in collaboration with their local VA medical centers. In addition to these research training awards, the program will periodically coordinate local and national networking meetings between HBCU faculty members and researchers and administrators at nearby VA medical centers to facilitate informal interpersonal interactions that can lead to meaningful research collaborations for the benefit of Veterans. HBCU Career Development awardees will be selected through a peer-review process coordinated by the VA Office of Research and Development Rehabilitation Research and Development Service.

What is Unique about HBCU-RSTP?
• Provides three to five years of direct research support
• Salary support (75% to offset University payout)
• Materials and supply budget for researcher
• Mentoring and training support between VA and HBCU
• 5/8th appointment at the VA
• Research technician salary provided
• Allows awardee to apply for VA-merit award and pilot awards

VA Historically Black College and University Research Scientist Training Program (HBCU-RSTP)
http://www.research.va.gov/funding/hbcu.cfm

VHA/ORD’s RESEARCH FUNDING SERVICES
• Rehabilitation Research and Development (RR&D) — supports a wide spectrum of studies for improving the quality of life of impaired and disabled Veterans, including prosthetics.
  – The Four R’s: Repair, Restore, Replace and Re-integrate
• Biomedical Laboratory Research and Development (BLR&D) - supports research exploring biological or physiological principles in humans or animals.
• Clinical Science Research and Development (CSR&D) - supports research focusing on humans as the unit of examination, and Cooperative Studies Program (CSP) conducts multi-site clinical trials and system-wide epidemiological investigations.

• Health Services Research and Development (HSR&D) – supports research that encompasses all aspects of VA health care: individual patient care, models of care delivery, and implementation of best practices within the health system.

ELIGIBILITY FOR VA RESEARCH FUNDING
• The VA Office of Research and Development is an intramural research program.
• All applicants (i.e., the Principal Investigator (PI) and any Co-PI) for VA research funds are required to hold a minimum 5/8th VA salaried position. IPA consultants are permitted.
• Decisions on 5/8th VA appointments are handled at the local level within the research office at the sponsoring VA station. ORD has no authority over these decisions.
• A letter of intent (LOI) must be submitted and approved before a full application can be submitted
• Two cycles of review per year (winter and summer)
• Eligibility panel for non-clinician scientists for the BLR&D service
• VA does NOT have SBIR/STTR Programs

VA ORD FUNDING MECHANISMS
– Career Development Program
  • Salary support (up to $100K/yr), protected time, travel award each year
  • CDA-2 can request up to $65K/yr in operating expenses
  • HBCU-CDA2 award includes $45K/yr for a research technician salary
– Merit Award
  • 1 - 4 years, $275K/yr, travel award each year
  • Can request up to $350K for one of the years
  • But not exceed overall cap ($1.1 million) for number years requested
– Pilot Awards:
  • 1 - 2 years, $100K/yr
  • Center of Excellence Awards:
    5 years, $1M/yr for team of investigators working on specific topics

Note: no indirect costs provided to institutions for VA research awards
Membership Engagement MSI STEM Research & Development Consortium

Submitted by: Mr. Glenn E. Hames, Membership Engagement MSI STEM Research & Development Consortium

May 2015

What is the MSRDC Consortium?
• $86M Cooperative Agreement to engage MSIs in applied & advanced research for DoD and other agencies
• Started with and developed under the authority of Section 252 of the National Defense Authorization Act: Establishment of program to enhance participation of historically black colleges and universities and minority-serving institutions in defense research programs

Section 252 Objectives
• Enhance R&D programs and capabilities in scientific and engineering disciplines critical to national security functions of DoD
• Encourage participation in Defense Research, Development, Testing & Evaluation (RDT&E)
• Encourage research and educational collaboration with HBCUs/MSIs, majority institutions, government defense organizations, and the Defense industry
• Membership Organization specifically dedicated to basic, applied and advanced research project funding

How is the MSRDC Worthwhile to My Institution?
• The first Call for White Papers is available now Go to https://www.fbo.gov and enter Keyword / Solicitation #: W911SR1420001
• Sponsored by the US Army Edgewood Chemical Biological Center (ECBC) to pursue technology advancement in areas of importance to ECBC, DoD and other Federal agencies engaged in science and engineering research
• Free and open to all MSIs
• Immediate Benefits:
  • Direct quick and easy research funding vehicle for government agencies
  • Introductions to collaborative partners in academia, defense industry and others
  • Exposure to Congressional level interest in the program
  • Fast track opportunity to build research capacity and resources for faculty and students

Technical Objective: Request for White Papers
• Topic 1: Models for use in Predictive Toxicology (Evaluating Organophosphate Compounds)
• Overview
• Need for the development of models to generate data on the toxicity of various commercially available organophosphate compounds (Pesticides and Rodenticides)
• Models can include both in vivo and in vitro systems
• GOAL: To generate high-throughput/high content screening technologies and Systems Biology approaches to develop robust and flexible tools to screen compounds
• Data generated can include: Information relating to cell toxicity (cell culture or primary cells), metabolism (Cytochrome P450 and other metabolic pathways), genotoxicity, hERG inhibition
• Cell types can include: Brain, Heart, Lung, Liver and Kidney and/or Skeletal Muscle
• Areas of Interest
  • In vitro — in vivo correlation and validation
  • Cross species correlation and validation
  • In silico — in vivo correlation and validation
• Technical Point of Contact
  • Dr. Robert Kristovich, ECBC, 410-436-4239, robert.l.kristovich.civ@mail.mil

How does an Institution Receive Funding?
Funding is available in 3 budget categories:
• 6.1 Basic
• 6.2 Applied
• 6.3 Advanced

There are two main methods to receive funding:
• Respond directly to ECBC Calls for White Papers (for consortium members only)
• Review the Technology Objectives
• If necessary, identify partners to strengthen your research approach
• Submit a White Paper response, followed by a solicited research proposal
• Market the use of the Cooperative Agreement to agencies outside of ECBC
• Particularly relevant for expertise that is beyond the focus of ECBC
• Negotiate a direct award via Business Development Proposals

How to Become a Member of the MSRDC?
• Must be a Minority Serving Institution as determined by the Dept. of Educ.
• Establish a primary school representative or POC
• Each institution must complete and submit the membership application www.msrdconsortium.org/membership.html and click on Become a Member
• Complete and sign the Consortium Membership Agreement (CMA)
• Agreement between school and MSRDC that formalizes Membership
• Addresses roles and responsibilities of both parties, including ownership and licensing of intellectual property, copyrights and patent rights
• Complete the Capabilities Matrix
• Submit a list of capabilities, including past performance and faculty research expertise
• Additional Membership Opportunity – Technology Committee
• Opportunity to shape the Technology Objectives
• Seat at the table with the government technology points of contact, majority schools, customers and major defense industry partners
Sponsored Programs activities during FY15 were interestingly very similar to those of FY14. While there was a 6% increase in the number of Intent Forms submitted (from 230 in FY14 to 244 in FY15), faculty and staff submitted 180 proposals this fiscal year, one less than last year. The value of proposals submitted increased by 2.3% with $123.1M and $126.6M respectively for FY14 and FY15.

During FY15, Hampton University received $26,264,549 in funding from new and continuing awards. This represents a 29% increase from FY14’s total of $20,361,713. The increase can be attributed to receipt of several key awards:

Hampton University received a new $3.5M award from the Department of Education for the First in the World (FITW) program. FITW is part of President Obama’s initiative to increase college completion, value and affordability. Hampton University was one of twenty-four grant-winners and one of only six minority serving institutions to receive an FITW award. Dr. Ira Walker is the FITW principal investigator.

Hampton University also received incremental funding of $728,957 on a $3.7M award from NASA for a project entitled, The Living Breathing Planet. Attempting to deepen the understanding of what makes a planet habitable, this interdisciplinary project will explore the habitability of Mars and Venus and will form the basis for identifying habitable planets around other stars. Dr. William Moore is the principal investigator.

The long-standing NASA project, Aeronomy of Ice in the Mesosphere (AIM) was incrementally funded $2.2M during FY2015. AIM’s primary goal is to increase understanding of the nature of clouds, their variation over time and relationship to Earth’s changing climate. AIM began at Hampton University in 2003, and is still performing well. Dr. James Russell is the principal investigator.

Another key award was, the Hampton University Regional Transdisciplinary Collaborative Center, more familiarly known as the Minority Men’s Health Initiative (MMHI). This continuing $13.5M NIH award was incrementally funded $3M during FY15. MMHI endeavors to narrow the gap of health disparities for minority men and focuses on cancer, cardiovascular disease, violence prevention, diabetes and obesity, and melanoma. Drs. Raymond Samuel and Wayne Harris are the principal investigators.

$703,444 was incrementally funded on a $2.3M award from NSF entitled, CyberCorps: SFS: Hampton University Graduate Education and Training Scholarship in Information Assurance (HU GETS-IA) Program. Dr. Chutima Boonthum-Denecke is the principal investigator.

### Fiscal Year 2015 Activity “At-a-Glance”

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<th>Category</th>
<th>FY14</th>
<th>FY15</th>
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<tr>
<td>I. Number of Proposal Submissions</td>
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<td>II. Total Amount Proposed</td>
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<tr>
<td>Salaries and Wages</td>
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<td>Student Aid/Participation Costs</td>
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<td>Technology &amp; Equipment</td>
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<td>III. Number of Awards</td>
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<td>New Awards</td>
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<td>26,264,549</td>
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**NOTE:** Data included in this report is reflective only of grant and contract activity and funding. It does not include development funding or activity.
Researchers’ Informational Forum - At-a-Glance

Fingertip Facts

Did you know?...
That general university information typically required for grant applications can be found on the HU website by navigating to Sponsored Programs.

Official Address: Hampton University, 100 E. Queen Street, Hampton, VA 23668

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<th>Indirect Cost Rates</th>
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Senate District - First
DHHS Institution Profile File
3163501

Type of Organization
Private-Nonprofit Institution of Higher Education

Authorized Representative:
Mrs. Doretha J. Spells
VP for Business Affairs & Treasurer
(757) 727-5213
doretha.spells@hamptonu.edu

Contractual Point of Contact:
Mrs. Alisa Rodgers
Director, Sponsored Programs
(757) 727-5363
alisa.rodgers@hamptonu.edu

Did you know?...
That general university information typically required for grant applications can be found on the HU website by navigating to Sponsored Programs.
Want to learn more information about the articles in this newsletter? Contact:

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