



# Stony Brook University

Center for  
Inclusive Education

## 2012–2013 ANNUAL REPORT

TO: Charles S. Taber, Vice Provost and Dean of the Graduate School, Co-PI NSF AGEP-T FRAME  
David L. Ferguson, Associate Provost, PI NSF BD, Co-PI, NIH IRACDA, Co-PI/PD AGEP-T FRAME

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Jorge Benach, PI & PD NIH IRACDA  
Gary Halada, PI & PD NSF REU Nanotechnology  
Bonita London-Thompson, Co-PI NSF AGEP-T FRAME  
Kenneth White, Co-PI NSF AGEP-T FRAME at Brookhaven National Laboratory

FROM: Nina Maung-Gaona, Assistant Dean and Director  
Center for Inclusive Education, The Graduate School

RE: CIE ANNUAL REPORT AY 2012-2013

DATE: October 25, 2013

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The staff of the Center for Inclusive Education is pleased to present the attached annual report, which summarizes our major activities over the past calendar year (August 2012-August 2013). A few of the major highlights include:

- Two new grants (NSF Bridge to the Doctorate and NIH IRACDA) totaling 4.3 million in extramural funding to promote diversity in scientific training opportunities that are offered at Stony Brook.
- CIE students and postdocs received nearly \$1.4 million in total direct assistance this year: over \$1.1 million was granted in the form of fellowships, stipends and salary, the remainder was granted for tuition, fees and research/travel expenses;
- Interactions with over 400 graduate students, postdoctoral trainees and alumni through our funded programs, monthly series, networking and other special events.
- Revamped CIE Website with expanded content, aligns with new Grad School and Provost format;
- Special celebration of the Dr. W. Burghardt Turner Fellowship program 25<sup>th</sup> Anniversary, culminating in a full day symposium and dinner attended by over 200 participants;
- Initiation of the NIH IRACDA NY-CAPS (NY consortium for the Advancement of Postdoctoral Scholars) Program with hiring of 6 postdoc trainees for mentored research and teaching experience with focused pedagogic training;
- Initiation of the NSF BD Program with recruitment of 7 fellows in August 2012 and another 7 fellows in August 2013;
- Addition of two new fulltime professional staff to assist with NIH IRACDA NY-CAPS program management and STEM education research;
- Launch of a research study on identity and self-efficacy in STEM

- Introduction of five (5) new CIE program series and events, while continuing CIE core programming, for a total of 85 activities this year.

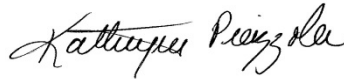
In summary, we are pleased that the SBU community and our collaborators nationally continue to value the CIE as a resource and a place for opportunities and connections that will advance the mission of diversity in STEM education and workforce development.

Thank you for your steadfast support of the Center for Inclusive Education. Please share this report with others who may be interested in our activities.

In service,



Nina Maung,  
Assistant Dean for Diversity & Director



Kathryne Piazzola,  
CIE Administrator (Pre/Post Awards, HR, REU)



Toni Sperzel,  
CIE Program Manager (Turner, GEM)



Ann Gardner,  
CIE Program Manager (IRACDA)



Angel Gonzalez,  
Postdoctoral Associate (CIE Core, Bridge to the  
Doctorate)



Sheri Clark,  
Postdoctoral Associate (Scholarly Research in  
STEM Education)

# 1. Student Support: Financial and Material

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The CIE supports SBU students to be successful on many fronts. First and foremost, we assist them by leveraging both intramural and extramural funding that allows them to accept offers of admission and continue their studies as they progress to their degrees.

## Applicable Goals from CIE Annual Plan:

- ✓ Provide financial assistance to CIE Students.
- ✓ Assist academic departments in their effort to provide current and future students/postdoctoral fellow's access to opportunities for academic and career success through effective mentoring, financial support, professional development and networking.

**Fellowships** The CIE leverages grant funds to support graduate students and postdoctoral fellows through the following programs:

- **Turner Fellowship Program:** The W. Burghardt Turner Fellowship is a NY State-funded Graduate Fellowship Program for eligible underrepresented students whose immediate academic plans include obtaining graduate or professional degrees in a variety of disciplines including the biological sciences, physical sciences, social sciences, medicine, humanities, engineering, and the arts. This year, the CIE supported a total of 75 Fellows, which includes 25 new Fellows, for a total of \$681,369. This year's recruitment cycle led to the selection of 20 new Fellows to join the 2013 cohort, which is expected to grow to 78 Fellows.
- **IRACDA NY-CAPS:** This newly-funded NIH program supports exceptional scientists with the desire to become excellent teachers through mentored research and pedagogic training at Stony Brook and mentored teaching assignments at our three partner institutions. Six scholar positions, renewable for up to 3 years, are filled; the remaining three slots will open next year. This year, salary support and fringe benefits for the NY-CAPS Scholars totaled \$207,686.
- **Bridge to the Doctorate:** The goal of the NSF Bridge to the Doctorate Program (BD) is to increase the number of underrepresented minority students admitted into science, technology, engineering, and mathematics (STEM) graduate programs. Each BD fellow receives a stipend for two years, a full tuition scholarship, fee coverage, and health insurance. Fellows are also given specialized academic support through tutoring and workshops. In order to apply, students must meet the eligibility guidelines and have been admitted to a graduate program at SBU. The BD program supported seven (7) fellows this year with a total of \$263,250.
- **Graduate Degrees for Minorities in Engineering and Science (GEM) Fellowships:** The National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. is a unique and powerful connection to a national network of universities and employers. This partnership promotes the participation of underrepresented groups in post-graduate science and engineering education and the technical workforce. GEM Fellowships were granted in partnership with Brookhaven National Laboratory to two new students receiving a total of \$21,000 in support.

- **Research Experience for Undergraduates (REU): Nanotechnology for Health, Energy & the Environment May 28 – August 2.** CIE organized and hosted this residential summer program with PI Gary Halada. The multidisciplinary REU site at Stony Brook University has a focus on the application of nanotechnology and nanomaterial to societal needs in health, energy and the environment. The program provides a summer research experience for academically talented undergraduates interested in the nanotechnology field. Stipend support was provided to 13 interns from 11 different undergraduate institutions; plus 1 RET (Research Experience for Teachers) participant, a science teacher from Brentwood High School. In addition to extensive exposure to mentored research in the lab, the program included an Ethics Symposium, a tour of Brookhaven National Laboratory, Graduate School Preparedness classes, Research Methods classes, an e-portfolio component, and a final Research Symposium/Poster session.
- **Other direct financial support**
  - **Conference Travel Awards:** CIE Conference Travel Awards recognize and support the intellectual achievement of our students and enable their participation as professionals in their scholarly fields. During the past year, 27 CTAs helped students to attend and present at meetings such as the New England Estuarine Research Society semi-annual conference. \$19,666 total funds contributed.
  - **Dissertation Support Stipends:** 5 Awards helping graduate students in financial need during the time leading up to their dissertation defense. \$15,000 total funds contributed.
  - **Turner Summer Research Grants:** 22 Awards supported CIE graduate students' research in France, Uganda, Madagascar, Cuba and a variety of domestic locations. \$76,659 total funds contributed.
  - **IRACDA NY-CAPS Professional Conference support:** NY-CAPS Scholars travel to annual IRACDA national meetings, and the grant also helps to defray the cost of attendance at national and international conferences in their fields of research. \$8,786 total funds contributed.

#### **Material support**

- **Laptop Loan Program:** The CIE loaned 23 laptop computers to graduate students.

## 2. Student Support: Professional Development and Networking

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#### **Applicable Goals from CIE Annual Plan:**

- ✓ **Organize events and activities to foster a strong sense of academic, social and professional development support within the CIE community.**
- ✓ **Organize workshops and seminars that will enhance the knowledge, skills, motivation and overall competitiveness of CIE students.**
- ✓ **Provide advice and advocacy for CIE students.**

### **Professional and Academic Development**

- **Monthly Research Cafés** - Over the past year, the CIE hosted 8 scholarly talks, providing a forum for Center students to present their research to the CIE and the larger university community. In addition to interested faculty and staff, an average of 17 students attended each talk.
  - \* C. Christina Lam (English): Latina Topographies: Re-membering the Body and The Construction of Self
  - \* Ann Marie Torres (Genetics): Inhibition of Mammalian T Cells by the Bacterial Pathogen Salmonella Enterica Serovar Typhimurium
  - \* Patricio Gallardo (Mathematics): What is a Moduli Space?
  - \* Sasha Rodriguez (Sociology): Toward a Path Dependent Reading of Uganda’s Kill the Gays Bill: A closer look into global context and implications
  - \* Melvn Eloy Irizarry-Gelpi (Phycis & Astronomy): The Secret Life of Interacting Quantum Particles
  - \* Jasmine Valentin (SoMAS): Compound-Specific Stable Isotope Analysis: A tool for assessing the effect of a marine reserve on the trophic position of Black grouper (*Mycteroperca bonaci*)
  - \* Yamil Velez (Political Science): Authoritarianism and Context
  - \* Daphne Meza (Biomedical Engineering): Visualizing Lou Gehrig’s Disease at the Molecular Level
  
- **Study Groups:** This CIE tutoring program continued to help students stay caught up with their classes and mentor each other. This past fall, 8 students participated in a weekly CIE Biochemistry Tutoring Group.
  
- **Cultural Heritage Celebrations (*New this year*):** Diversity leader panelists share their personal journeys to inspire our students to value and give service, both while they are here at Stony Brook and in their future careers.
  - \* **Hispanic Heritage Month** On November 8 – 9, CIE Co-sponsored “The Accursed Circumstance, Virgilio Piñera Centennial Conference at Stony Brook University.”
  - \* **Black History Month** February 19 – 20, CIE celebrated by bringing back 2 CIE Alumni and PhD Grads as featured presenters: Dr. Shawn Bediako (Associate Professor of Psychology, University of Maryland Baltimore Campus) and Dr. Arthur Jay Goff (Principal Investigator at US Army Medical Research Institute for Infectious Diseases). Events included a meeting with the SBU Provost and Cabinet, the CIE Diversity Leaders Brunch, Interactive presentations to CIE students at “Reflections of the Past, CIE Alumni Journeys” (17 students attended). They also interacted with SBU students and faculty at smaller, informal luncheons.
  - \* **Women’s History Month Event (*New this year*)** Planned for March, the event’s proximity to CIE’s Black History month program, combined with understaffing during the Director’s maternity leave, led to the decision to defer this event.

- **Topic-Based Lunches (*One per semester*)** The CIE hosted 2 Topic-Based Lunches this year, with the goal of offering students a glimpse into the professional pathway of our senior university leaders, fostering a sense of school spirit as well as providing valuable insight into potential career paths.
  - \* Fall Semester: November 14. **Dr. David L. Ferguson**, Associate Provost for Diversity and Inclusion, Chair of the Department of Technology and Society, and Distinguished Service Professor, “A Personal Story of Struggles and Successes in Following Multiple Passions.” 23 students and 5 staff attended.
  - \* Spring Semester: April 19. **Dr. Charles Taber**, Interim Dean of the Graduate School, Professor of Political Science. “Serendipity and Design in Building an Academic Career.” 12 students and numerous staff attended.
- **Writing Accountabla-Buddy**: This pilot program aims to help students preparing dissertations to stay on track as members of a scheduled, structured writing accountability group. In the fall semester 5 students participated and 4 students participated the spring semester.
- **Writing to Win Workshop**: A workshop to inform students on the NSF Graduate Research Fellowship and the Ford Pre-doctoral fellowship. This even took place on September 19<sup>th</sup> with 47 students in attendance.
- **ABD Proseminar Series**: Deferred due to planning issues.
- **Celebrating Diversity and Academic Excellence (CDAE) Symposium**: Deferred due to staffing issues.
- **CIE Intersession Writing Intensive**: Provides our graduate students an opportunity to progress on their dissertation in a distraction-free environment. This event took place on January 22 – 25 with 3 student participants.
- **Special Events**:
  - \* **The Legal, Ethical and Societal Impact of Nanotechnology**: July 17 at the Simons Center for Geometry and Physics. Distinguished speakers from Stony Brook, BNL, LIU and the University of Gothenburg in Sweden, topics included Perceptions of Risk, Education and Nanoethics, and the Growing Impact of Nanotechnology and Nanomaterial’s on Society.
  - \* **Summer Student Symposium and Closing Ceremony**: Joint poster session and presentations in summation of two summer research programs at SBU.

**Program Orientation**: The CIE provides program-specific orientation for participants receiving stipends and fellowships.

- **The Dr. W. Burghardt Turner Fellowship Program**: August 20. Led by Nina Maung-Gaona and Toni Sperzel, with guest speaker Interim Graduate School Dean Charles Taber. 29 participants.
- **Bridge to the Doctorate I**: September 5. Led by Dr. Angel I. Gonzalez. 6 new BD Fellows - Patricia Enmore, Moisés Guardado, Adaire Heady, Nii Mensah, Daphne Meza and Melissa Sims.
- **IRACDA NY-CAPS I**: September 24. Led by Nina Maung-Gaona and Kathryn Piazzola. All 3 members of Scholar Cohort #1.
- **Bridge to Doctorate II**: January 25. Led by Dr. Angel I. Gonzalez. 1 new BD Fellow - Coreyn Goddard.

- **IRACDA NY-CAPS II:** August 1. Led by Nina Maung-Gaona and Ann Gardner. All 3 members of Scholar Cohort #2 attended, followed by a luncheon meeting for all 12 NY-CAPS Scholars and Mentors.

#### **Mentoring and Advocacy:**

- **Community of Student Mentors Program:** Advanced CIE students are matched with first- or second-year students as peer mentors, assisting with transitioning successfully to the rigors of graduate school life. The kickoff event was a bowling party on September 28, with all 20 participating students in attendance.
- **Turner AIM Mentors Program (TAMP):** CIE Turner students mentor undergraduate juniors and seniors, who in turn mentor sophomores and freshmen. Monthly 1-hour meetings. New pairing method meant fewer pairings this year.
- **Keeping it Real (*New this year*):** This new series features informal discussions, facilitated by CIE staff Dr. Angel Gonzalez, in which graduate students talk about many of the issues that, although not directly related to academics, nevertheless impact their day-to-day lives. Coping with these types of challenges, along with being a successful academic, can be difficult to manage. Talking with fellow graduate students fosters social support, and provides insight into different ways to deal with these issues. Attendance varied by topic from 7 to 17 students with an average of 12 students per session. The topics included:
  - \* “Brains Don't Thrive Under Fluorescent Light: Balancing Grad School and a Social Life”
  - \* “Family and Cultural Pressures”
  - \* “Dollars and Sense: Effectively Managing a Limited Budget While in Graduate School”
  - \* “Dating and the Doctorate: Starting and Maintaining Relationships in Grad School”
  - \* “Keeping the Faith: Maintaining a Sense of Spirituality While Pursuing Academic Endeavors”
  - \* “Time Enough at Last: Learning to Better Manage Your Time”
- **Student Progress** - The CIE directly monitors our students’ progress and provides intervention, problem mitigation and/or advocacy as necessary on their behalf. The CIE specifically monitors student academic records to verify progress and identify potential problems, and stays in contact with students to facilitate resolution of problems through sharing resources or communication/counseling.
  - \* **Maintain regular contact with advisors,** Graduate Program Directors and Coordinators, provide interventions as requested by students or faculty/graduate programs.
  - \* **Meet one-on-one** with all first-year students.
  - \* **Retention Lunches** with CIE students. Eight (8) group lunches attended by 68 students were hosted by CIE Director Nina Maung-Gaona over the summers.

#### **Social and Networking Events**

- **CIE Welcome BBQ/Fall Kickoff** This annual outdoor event was held on Monday, August 20 at 5:00 pm in front of the Computer Science Building. 40 students/fellows.
- **“Celebrate with Us” Monthly Networking Socials (*New this year*)** CIE monthly series to share, celebrate and respect happenings in the lives of community members (birthdays, weddings,



farewells, qualifiers, publications, awards, etc.), as a gesture of our interest and investment in personal, academic and professional milestones. 41 students/fellows attended some or all of this year's monthly socials, with an average attendance of 26 students.

- **CIE Photo Day:** November 14. 23 students and 5 staff participated.
- **CIE Holiday Party and Graduating Student Recognition** at the University Café, December 19. Approximately 35 guests.
- **Ship-building for Roth Pond Regatta (*New this year*).** April 21-22. 8 participants.
- **End of Year Celebration and Graduating Student Recognition** at the SAC Gallery, May 22. 57 guests.
- **The CIE Doctoral Hooding Brunch:** May 23. We hosted 15 graduates and family members before the hooding at Pritchard Gym.

## 3. Grants

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### Applicable Goals from CIE Annual Plan:

- ✓ Pursue key grant opportunities that will add significant resources to support the mission of the CIE.
- ✓ Continue to support faculty and departments in their pursuit of external funding.

- **Submitted by CIE this year, Under review**

- \* **NSF AGEP-T** (Alliances for Graduate Education and the Professoriate – Transformation). Under review. Requested \$1.75 million for 3.5 years.
- \* **NIH IMSD** (Initiative for Maximizing Student Development) Currently under review. Requested \$2.4 million for five years.
- \* **NSF REU (Research Experiences for Undergraduates) Nanotechnology for Health, Energy & the Environment.** Submitted August 2013. Requested \$435,652 for three years.
- \* **NIH BUILD (Building Infrastructure Leading to Diversity) Planning Grant** (Assisted with application writing for NY METRO consortium).

- **Funded CIE projects starting/continuing this year**

- \* **NIH IRACDA** (Institutional Research and Career Development Award) – awarded \$3,306,210 August 2012
- \* **NSF LSAMP BD** (Bridge to the Doctorate) Cohort at Stony Brook University – awarded \$977,820 in August 2012.

- **CIE-Assisted departmental proposals** - Provide letters of support (LOS) for grants, participate in site visits, and help to write relevant sections of proposals and plans.

- \* **CELESTE** (Assisted with COEUS processing for E. Takeuchi, Materials Science and Engineering)

- \* “Biological Basis of conflict between molecular and morphological phylogenies.” (LOS for L. Davalos, Ecology and Evolution)
- \* NSF Research Experience for Undergraduates (REU): Department of Physics (LOS)
- \* NSF Research Experience for Undergraduates (REU): Department of Chemistry (LOS)
- \* NIH SBU BEST: Department of Pharmacology (LOS)
- \* Presidential Mini Grant – Medical Scientist Training Program (assisted)
- \* NIH P50 Proposal (assisted)
- \* GAANN- Graduate Assistance in Areas of National Needs: Department of Materials Science
- \* National Institute of Mental Health T-32 Training Grant “Imaging in Psychiatry: Program for Advancing Translational Science – “ImPPACTS””: Department of Psychiatry (assisted)

## 4. Leadership in Promoting Diversity

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### Applicable Goals from CIE Annual Plan:

- ✓ Share our best practices regionally and nationally through presentations at key meetings and conferences and the dissemination of publications.
- ✓ Keep our constituents and the broader University community abreast about key diversity developments within the Center, throughout New York State and nationally
- ✓ Participate in national diversity conferences and meetings to ensure Stony Brook is visible among students; government agencies, higher education institutions and other relevant entities
- ✓ Build the capacity and awareness of individual members and entities on campus of ways to support the mission of diversity and foster greater participation in diversity efforts.
- ✓ Engage alumni in CIE activities in an effort to forge new partnerships as well as fundraise.

### CIE Activities for SBU/SUNY

On October 5th, Stony Brook University proudly commemorated the **25th Anniversary of the Dr. W. Burghardt Turner Fellowship Program** with a full day celebration, bringing together over 200 attendees, including alumni, leadership, and current fellows, and reflecting on the impact of the Turner program on the campus, in the community, and in the fellows' own lives.

- **Symposium with networking lunch and diversity exhibit:**
  - Turner Alumni Panel: Shared struggles and triumphs of their graduate school experiences, connecting them and recognizing how those experiences contributed to their current career paths.
  - Research Presentations: By alumni and current fellows (Dramaturgy, Cultural Analysis, Anthropology, Genetics, and Technology, Policy and Innovation).
  - Current Turner Fellows Panel: How the Turner community provides a support network of during their degree pursuit here at Stony Brook.

- Cosponsored Provost's Lecture Series Presentation: Dr. Frances Colón, Deputy Science and Technology Adviser to the Secretary of State at the US Department of State discussed how science, technology, engineering and mathematics can open the doors of diplomacy for America across the globe.
- **Celebratory Dinner**: This began with a welcome for the 25 new Stony Brook Turner fellows, who were greeted by nearly 200 members of the Turner community, including 40 alumni of the program, Fellowship representatives from the SUNY Office of Diversity, Education and Equity and the family of the late Dr. W. Burghardt Turner. Dr. Juanita Sharpe (1998), Turner alumna and Ph.D. graduates of the department of Biochemistry and Structural Biology gave a moving keynote speech recognizing the obstacles and celebrating the triumphs she experienced during graduate school, and providing a context for how these experiences came to shape her path to her current position as Assistant Vice Provost for Academic and Faculty Affairs at Virginia Commonwealth University.
- **Turner Celebration Video**: Produced to recap the 25<sup>th</sup> Anniversary, this video will be posted to the CIE website.
- In preparation for the Anniversary, the CIE hosted a **NY Metro Turner Grad Gathering** on August 16 in Manhattan with 9 students attending.
- Assistance with SUNY Faculty Diversity Nomination of former CIE student, Glenda Trujillo in the Department of Pathology. Dr. Trujillo won the award in spring of 2013

#### **Data and Research:**

- **CIE Student Database Project**: Funding agencies have increasingly focused their scrutiny on awardees' level of sophistication in collecting and analyzing key metrics. Of vital importance to achieving this goal is maintaining data on Center and University activities. We continued to work on our comprehensive CIE Student Database Project in an effort to ensure we have the most complete, up-to-date information possible on all present and past CIE students, including demographics, contact information, career tracking information, etc. This is important for grant applications, for analyzing the impact of our activities, and for disseminating our best practices.
- **Evaluation/Assessment**: The CIE has just concluded our SUNY AGEP evaluation project in which we analyzed 10 years of student outcomes data for SUNY Albany, Binghamton, Buffalo and Stony Brook to determine key factors in successful recruitment, retention and job placement of AGEP students.
- **Scholarly Research on STEM education**: Currently have a study that examines interventions that enhance the skills and self-efficacy of URM scholars and promote a positive STEM identity – factors that have been shown to help promote and sustain academic success.

#### **CIE Activities with National Programs and Collaborators:**

- **Northeastern Association of Graduate Schools ETS Awards (NAGS) Nomination**: "Successful Innovations in the Department of Biochemistry and Cell Biology" highlights efforts in

collaboration with the CIE to improve the retention of graduate students and provide programmatic efforts to improve graduate degree completion.

- **American Physical Society.** September 14 (SBU): Visit of Dr. Theodore Hodapp, Director of Education and Diversity, to learn from our students and staff about recruiting URM students to STEM disciplines.
- **Institute for Broadening Participation.** March 2: CIE Staff Kathyne Piazzola attended on behalf of IBP Regional Specialist Nina Maung-Gaona.
- **National GEM Consortium Board of Directors Meeting.** August 5-7, 2012 (San Francisco, CA) and August 6-9, 2013 (San Juan, Puerto Rico): CIE Staff Toni Sperzel attended. These meetings bring together representatives of 100 member institutions and industry partners to improve and expand GEM operations.
- **Annual IRACDA Meeting.** June 2-4 (Atlanta, GA): Nina Maung-Gaona and CIE Staff Ann Gardner with 4 IRACDA Scholars and 4 representatives from our Partner Institutions in attendance. This annual meeting provides technical assistance, training and networking opportunities for IRACDA grantees across the US. All 4 Scholars presented posters.

### **Recruitment:**

The CIE participates in extensive minority recruitment efforts, including representation at key national conferences and recruitment fairs. These conferences provide access to a strong pool of research-minded undergraduate students who can be recruited as candidates for graduate study, and potential postdocs. This year we collected 260 intake forms from interested attendees.

- Savannah State Grad Talk
- the NIH Recruitment Fair
- the BNL Grad Fair
- the AGMUS Research Symposium
- the GEM Grad Lab at NYU Polytechnic
- the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)
- the Annual Biomedical Research Conference for Minority Students (ABRCMS)
- Emerging Researchers National Conference in STEM (ERN)
- Special Presentation at SBU: "The Other Kind of Doctor, Grad School – What's that all about?" Presentation by Dr. JP Gergen, December 12. CIE Students assisted with presentation and 15 Students attended.

### **Communication:**

- **Semester Newsletters** (2 per academic year): Print format with photos and illustrations of major CIE events, milestones
- **Monthly e-newsletters** (12 per year): Listing of events, funding opportunities, job openings, workshops and other resources from SBU and beyond.
- **Social Media:** Announcements, reminder, and conversations

- Continued to build Facebook and Linked-in networks
- Launched CIE Twitter account this Spring
- **NY-CAPS Monday Messenger:** Weekly e-newsletter of announcements, reminders and calendar/events of interest to IRACDA NY-CAPS community. Launched April 2013.
- **CIE Website:** Late this year we began the process of overhauling the CIE website to conform with the provost and graduate school sites. CIE staff were all trained in content management and began migration of updated and revamped content to the new domain:  
<http://www.stonybrook.edu/commcms/cie/>

## 5. Collaborations

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### *Applicable Goal from CIE Annual Plan:*

- ✓ Collaborate with other campus organizations and departments to co-sponsor events and activities to enrich the academic and social lives of students on campus.
- **The National Academies/HHMI Summer Institutes on Undergraduate Education in Biology August 4-9.** Kathyne Piazzola assisted with the facilitation of this regional summit featuring hands-on, team-based curriculum development.
- **SENCER (Science Education for New Civic Engagements and Responsibilities) – Mid Atlantic Regional Conference at Stony Brook University on March 28, 2013.** With support of the National Science Foundation, the National Center for Civic Engagement and SENCER are working to enlarge, nurture and sustain a growing body of dedicated faculty members, academic leaders, and students who, by applying the science of learning to the learning of science, are strengthening our civic capacity. CIE organized and staffed this one-day conference at SBU.
- **Learn to Learn Camp July 29-August 2.** The SMART GRID Learning to Learn Camp combines the very best of learning to learn (finding out people’s strengths, tapping into their near-unlimited learning potential, and learning the skills that improve the ability to read, write, think critically, and work with others) with the technological content and focus of SMART GRID, where students will become familiar with the fundamentals of energy and electricity, strengthen skills such as problem-solving and creative thinking, and develop a systems perspective. This inaugural week long camp involved over 60 conditional undergraduate admits to Stony Brook. CIE provided logistical support and identified tutors and judges. Drs. Sheri Clark and Angel Gonzalez were among the judges that graded student assignments.

## 6. Program Specific Updates

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## Dr. W. Burghardt Turner Fellowship Program

The Dr. W. Burghardt Turner Fellowship is a Graduate Fellowship Program for eligible underrepresented students pursuing graduate or professional degrees at Stony Brook University in a variety of disciplines including the biological sciences, physical sciences, social sciences, medicine, humanities, engineering, and the arts. Candidates for the Turner Fellowship Program must be a citizen or permanent resident of the United States who will contribute to the diversity of the student body, have overcome disadvantage or other impediment to success in higher education and have the potential to serve as future leaders in their professions, their communities, and the broader society. At its core, the Turner Fellowship provides supplementary financial support for the duration of a fellow's anticipated graduate study at Stony Brook, and a community of diverse scholars connected across departments to support student success.

The fellowship carries the name of Dr. W. Burghardt "Burg" Turner, emeritus Professor of History at Stony Brook University. An African American faculty member who taught in the University for nearly 20 years, Professor Turner was actively engaged with issues relating to academic access for underrepresented students and their success at Stony Brook University. Professor Turner did not receive his doctorate, due to some of the very obstacles that the Fellowship seeks to overcome. In 2007, Stony Brook University awarded Burg Turner an honorary Doctorate in Humane Letters.

Turner Fellows receive a total award value of \$50,000 in supplemental support distributed over the five year period of doctoral study. These supplemental funds are combined with a minimum ½ TA, GA or RA from their academic department each year for the duration of their Turner Fellowship. In addition to the Fellowship funds, Turner fellows are also eligible for conference travel support and summer research grant funding.

### **Incoming Fellows Fall 2012**

In the fall of 2012 the Turner Program welcomed 25 new fellows comprised of 19 new recruits to Stony Brook and 6 Dissertation Fellowship Recipients.

### **Graduating Fellows August 2012-Spring 2013**

During the 2012-2013 Academic Year the Turner program graduated 10 fellows:

Pierre Albert, M.A. Public Policy  
Linda Sookhoo; M.S.W., School of Social Welfare  
Jorge Sanchez; M.D., School of Medicine  
Sonia Kircher, M.F.A., Theater Arts  
Alexandra Athan; Ph.D., Chemistry  
Melvin Irizarry; Ph.D., Physics  
Christina Lam, Ph.D., English  
Javier Monzon, Ph.D., Ecology & Evolution  
Karla Batres, Ph.D., Experimental Psychology  
Krystal Grant, Ph.D. Music Composition

### Nominees and Awards:

For the fall 2012 incoming cohort the Turner Fellowship received 51 nominations, awarded 36 Fellowships and welcomed 19 new students to campus

For the fall 2013 the Turner Fellowship received 55 nominations, awarded 34 Fellowships and welcomed 18 new students to campus

Programming: During the 2012-2013 Academic Year the Turner Program awarded 22 Summer Research Grants totaling \$76,659 in funding support and 25 conference travel awards with a total value of \$19,666 . Additionally we distributed \$15,000 in dissertation support stipends to Turner Fellows who had fallen off of departmental and/or Turner support but were in their final semester before defending their dissertation.

### Turner Conference Travel Awards 2012-2013

Banks	Matthew	IDPASP	Ph.D.	Congress of the International Primatology Society
Santana	Alexis	HBMPH	Ph.D.	International Congress on oncogenic Herpesviruses and Associated Diseases
Kircher	Sonia	THRMFA	MFA	73rd Annual Tekakwitha Conference
Ng	Rocio	BEEPH	Ph.D.	Evolution 2012
Marine	Jeannette	CHEPH	Ph.D.	American Chemical Society 2012
Martinez	Christopher	MASPH	Ph.D.	American Fisheries Society 142nd Annual Meeting
Hentrup	Miles	PHIPH	Ph.D.	Society for Phenomoneology and Existential Philosophy
Reid	Inefta	BSBPH	Ph.D.	Groningen Congres Bureau
Rodriguez	Sasha	SOCPH	Ph.D.	2nd Annual Public Sociology Conference
Gallegos De Castillo	Lori	PHIPH	Ph.D.	American Philosophical Association Eastern Division Conference
Fredrick	Sharonah	HISPH	Ph.D.	ASU Renaissance and Medieval Studies Conference
DeLeon	Jennifer	MCBPH	Ph.D.	P13K and Interplay with other Signaling Pathways
Brock	Marcus	CSTPH	Ph.D.	The National Conference on LGBT Equality: Creating Change
Nesbitt	Allison	IDPPASP	Ph.D.	American Association of Physical Anthropologists Annual Meeting
John	Jesse	GEOPH	Ph.D.	The Geological Society of America Annual Meeting
Pinto-Handler	Sergio	HISPH	Ph.D.	James A. Barnes Graduate History Conference
Rodriguez	Sasha	SOCPH	Ph.D.	18th Annual History in the Making Conference

Bynum	Patrick	ESTMS	M.S.	39th Annual NSBE Convention
Moultrie	Tiara	HISPH	Ph.D.	Migration, Mobility and Movements- NU Graduate Conference
Delgado	Francisco	EGLPH	Ph.D.	College of English Association 2013-NATURE
Mongle	Carrie	IDPASP	Ph.D.	American Association of Physical Anthropologists Annual Meeting
Ng	Rocio	BEEPH	Ph.D.	Society for the Study of Evolution
Sookhoo	Linda	HWG	MSW	Yale Bouchet Conference on Diversity and Graduate Education
Banks	Matthew	IDPASP	Ph.D.	82nd Annual Meeting of the American Association of Physical Anthropologists

## NSF Bridge to the Doctorate Program

The Louis Stokes Alliance for Minority Participation (LSAMP) Bridge to the Doctorate (BD) program is funded by the National Science Foundation (NSF) to increase the number of underrepresented minority students admitted into science, technology, engineering, and mathematics (STEM) graduate programs. The program is designed to provide support for these students as they complete their master's degree coursework and transition into doctoral programs, ultimately increasing the number of underrepresented minority scientists in academic, scientific, and technology professions.

A cohort of twelve students is selected for the Bridge to the Doctorate program from NSF LSAMP or affiliated programs from across the country. Each Bridge to the Doctorate fellow receives a \$30,000 annual stipend for two years, a full tuition scholarship, fee coverage, and health insurance. Fellows are also given specialized academic support in the way of tutoring and writing and exam workshops. Further, fellows are encouraged to attend conferences and participate in community building activities to stimulate their academic and professional development.

The BD 2012 cohort is the fourth BD cohort at Stony Brook University, but the first cohort managed by the CIE. The CIE works closely with the fellows as they complete their first two years of graduate study. During the 2012 – 2013 academic year, to fulfill the goals of the LSAMP BD program, the CIE:

- **Recruited 13 LSAMP Bridge to the Doctorate students:** Seven (7) fellows were recruited during the 2012 – 2013 academic year and another seven (7) incoming fellows were recruited for the 2013 – 2014 academic year. Fellows were selected from 21 applications received from sixteen LSAMP institutions.
- **Designed and implemented a program that helped students successfully complete two years of STEM graduate study:** In addition to being involved in the standard CIE activities designed to ensure student success, BD fellows are required to:
  - Attend monthly group meetings with all BD Fellows and BD program coordinator to track student progress, discuss student challenges, and address any student concerns.
  - Meet with BD program coordinator one-on-one once a semester to review academic progress, address difficulties, discuss research plans, and map out long-term goals.
  - Apply to the NSF Graduate Research Fellowship every year that they are fellows. To assist them in this endeavor, BD Fellows were required to attend the Writing to Win Seminar to help them to prepare their fellowship applications. In addition, BD fellows



received one-on-one assistance while they prepared their applications from previous fellowship winners.

- **Ensured that BD Fellows are on track to enter and successfully complete doctoral programs and then move into academia and the high technology workplace:** Our first cohort of BD fellows has successfully completed their first year.
  - Two of these students, who are in Ph.D. programs, will be continuing in these programs here at Stony Brook. The students in terminal master's programs are on track to complete master's studies by the end of the 2013 – 2014 academic year and are considering Ph.D. programs here at Stony Brook University, as well as Ph.D. programs at other universities.
  - BD Fellows are heavily engaged in rigorous research programs. During the 2012 – 2013 academic year, 4 BD fellows presented at 4 different national conferences and 1 BD fellow had a paper published in a peer-reviewed journal.

## NIH IRACDA Program

The New York Consortium for the Advancement of Postdoctoral Scholars (NY-CAPS) is one of 19 NIH institutional postdoc fellowships funded through the IRACDA (Institutional Research and Career Development Award) program. NY-CAPS prepares postdocs with a commitment to underserved populations to attain tenure-track teaching positions through:

- Mentored productive, independent research at Stony Brook,
- Focused pedagogic training with professional development, and
- Mentored teaching experience at our minority-serving partner institutions:
  - CUNY Brooklyn College – a comprehensive public institution offering undergraduate and graduate STEM programs, diversity student funding programs and independent research activity; located in Brooklyn
  - SUNY College at Old Westbury – a primarily undergraduate public institution with strong chemistry and biology departments and a new biochemistry track; located in north-central Nassau County
  - Suffolk County Community College – a two-year public college with extensive science programs that prepare students to matriculate at 4-year colleges. They are funded to provide lab experience at Brookhaven, SBU and other research institutions and have student diversity funding programs.

Dr. Jorge Benach, Chairman of the Department of Molecular Genetics and Microbiology, is the Principal Investigator and Program Director of the NY-CAPS program. The NY-CAPS Co-PI is Dr. David Ferguson, Associate Provost for Diversity and Inclusion, Chair of Department of Technology and Society, Distinguished Service Professor of the Department of Technology and Society and also PI for the NSF Alliance for Graduate Education and the Professoriate and for the LSAMP Bridge to the Doctorate. CIE Director and Graduate School Assistant Dean for Diversity Nina Maung-Gaona is the Program Administrator. CIE staff member Ann M. Gardner is the NY-CAPS Program Manager.

NY-CAPS is unique among IRACDA institutions thanks to the University resources that it incorporates:

- Foremost among NY-CAPS' resources is its home in the CIE. The CIE enhances diversity at SBU by providing resources, networking and a sense of community through research and professional development. The CI staff, and the students and postdocs they work with, have created a supportive "home base" within the University to help students thrive and excel.
- NY-CAPS' pedagogic training course has been developed in collaboration with the SBU Faculty Center to provide key skills in course development and assessment and professional development for postdocs seeking teaching careers.
- NY-CAPS also incorporates workshops from the Alan Alda Center for Communicating Science, a national resource that is part of the SBU School of Journalism. Scholars take workshops such as Improvisation, Distilling Your Message for the Media, and TV Interview Skills that enhance their presence in the classroom, to prospective employers and to the public.

### **Scholar Profiles:**

NY-CAPS selects 3 postdocs each year from about 25 applicants (this number is growing), for positions that are renewable annually for up to 3 years. We are funded for a total of 15 Scholars in the current 5-year award. The first cohort of Scholars began in September of 2012, and in 2013 the second cohort of three Scholars joined our program. Scholars are hired on RF payroll at NIH salary guidelines, receiving full time RF benefits. Current NY-CAPS Scholars are conducting research in Developmental Genetics, Molecular Biology, Neuroscience and Evolutionary Genetics.

NY-CAPS Scholars attend and present at scientific conferences and professional development meetings. In addition each scholar presented a poster at the annual IRACDA Conference in June.

Our Scholars are also actively seeking extramural funds for their projects. One has secured a Carol M. Baldwin Breast Cancer Research Award for his lab, and another is working with the New York State Department of Health for support. They also continue to prepare research papers for publication in peer-reviewed journals.

### **Applications:**

Successful applicants are recent doctoral graduates in the biological sciences, seeking tenure-track careers that combine teaching with independent research, and have an interest in working with underrepresented minority students. NIH requires that Scholars be US citizens or permanent residents.

NY-CAPS requires candidates to submit application forms, three letters of support, a personal statement, and a letter from a potential mentor. Applications will open this fall for positions beginning in May 2014. More information can be found on the IRACDA NY-CAPS page of the CIE website [www.stonybrook.edu/cie](http://www.stonybrook.edu/cie)

### **Funding:**

This program was funded for 5 years beginning August, 2012 in the amount of \$3,306,210. The bulk of this amount is salary, fringe and travel support for Scholars. IRACDA grantee Scholars, Administrators

and PIs attend an annual program meeting. Scholars also receive funding to travel to scientific meetings and/or professional development conferences and workshops in addition to those at Stony Brook.

## **NSF Research Experience for Undergraduates in Nanotechnology Program**

The multidisciplinary REU site at Stony Brook University has a focus on the application of nanotechnology and nanomaterial to societal needs in health, energy and the environment. The program is an intensive 10-week summer research experience for academically talented undergraduates who are qualified, motivated and interested in the nanotechnology field. Participants will work with a faculty mentor and become fully integrated into active research groups using state-of-the-art facilities.

### **Program Components:**

- Full time research supervised by a faculty mentor
- Research Methods and Graduate School Preparation Workshops
- “Mid Week Lunch Seminar” - every week a faculty member presents a topic based professional development or academic workshop
- Poster Presentation at REU Symposium and Closing Ceremony

### **Award:**

- Participants receive a \$4000 summer stipend for full time research
- Lodging and meals are provided to all participants. A \$300 travel award is also provided for participants living more than 75 miles from the Stony Brook Campus

In 2013 we had 71 applicants to the program from 40 institutions. While the NSF funding allows for 10 slots we were very fortunate to be able to fund an additional 3 students from Suffolk Community College through an arrangement with the NSF S STEM Program administration. SCCC funds the stipend of these students which allows us to accept and train additional applicants. We have already seen a return on our investment; a 2012 REU participant has now begun his doctoral studies here at Stony Brook this fall.

## **GEM Fellowship Program**

The mission of The National GEM Consortium is to enhance the value of the nation's human capital by increasing the participation of underrepresented groups (African Americans, American Indians, and Hispanic Americans) at the master's and doctoral levels in engineering and science. GEM's principal activity is the provision of graduate fellowships at the MS and Ph.D. levels coupled with paid summer internships. GEM also offers programming on the importance of graduate school and tools for access and successful matriculation.

Fellowship Funding: GEM Masters Fellows receive a stipend, which may be supplemented by the GEM Member University. The funding for the MS Award is for up to four semesters or up to six quarters. The

funding for the Ph.D. programs is up to the 5th year of the Ph.D. program. One year is funded through the GEM National Office, via sponsorship from a GEM Employer and the GEM University. During the remaining years of the PhD program GEM Fellows are funded at the same level of other funded doctorate students in the department. GEM Fellows may be expected to accept a teaching or research assistantship. GEM Universities may place additional requirements on GEM Fellows, such as requiring that GEM Fellows obtain in-state residency. GEM Fellows must check with individual GEM Member University representatives to determine if additional requirements exist at that university. Applicants must be a U.S. citizen or U.S. permanent resident at time of application.

### **Incoming GEM Fellows:**

In the fall of 2012 the Center for Inclusive Education welcomed two new GEM Fellows to Stony Brook (Patrick Bynum, Daphne Meza). It is important to note that the GEM Fellowship awards about 100 fellowships nationally each year, with over 900 students applying for consideration.

### **Applicants:**

The GEM Fellowship requires applicants to also indicate 3 member institutions to which they will apply. For the fall of 2012 Stony Brook University had 9 applicants who applied for the GEM Fellowship

### **Programming:**

In addition to the fellowship, GEM conducts two signature programs to promote the participation and successful graduation of underrepresented minorities at the graduate level in science and engineering. GEM's signature undergraduate program, called GRAD Lab (Getting Ready for Advanced Degree Laboratory), inspires close to one thousand underrepresented STEM undergraduates annually to pursue a graduate degree in engineering or science. The GRAD Lab is currently supported by The Motorola Foundation and The Intel Foundation. GEM's signature graduate program called FFP (Future Faculty and Professionals) provides comprehensive programming. On October 26, 2012 Stony Brook University brought six undergraduate students to the GEM GRAD Lab at NYU Polytechnic in Brooklyn, New York.

The National GEM Consortium also holds an annual meeting each August. In August of 2012 the meeting was attended by Toni Sperzel, the Program Manager.