

# new york city alliance

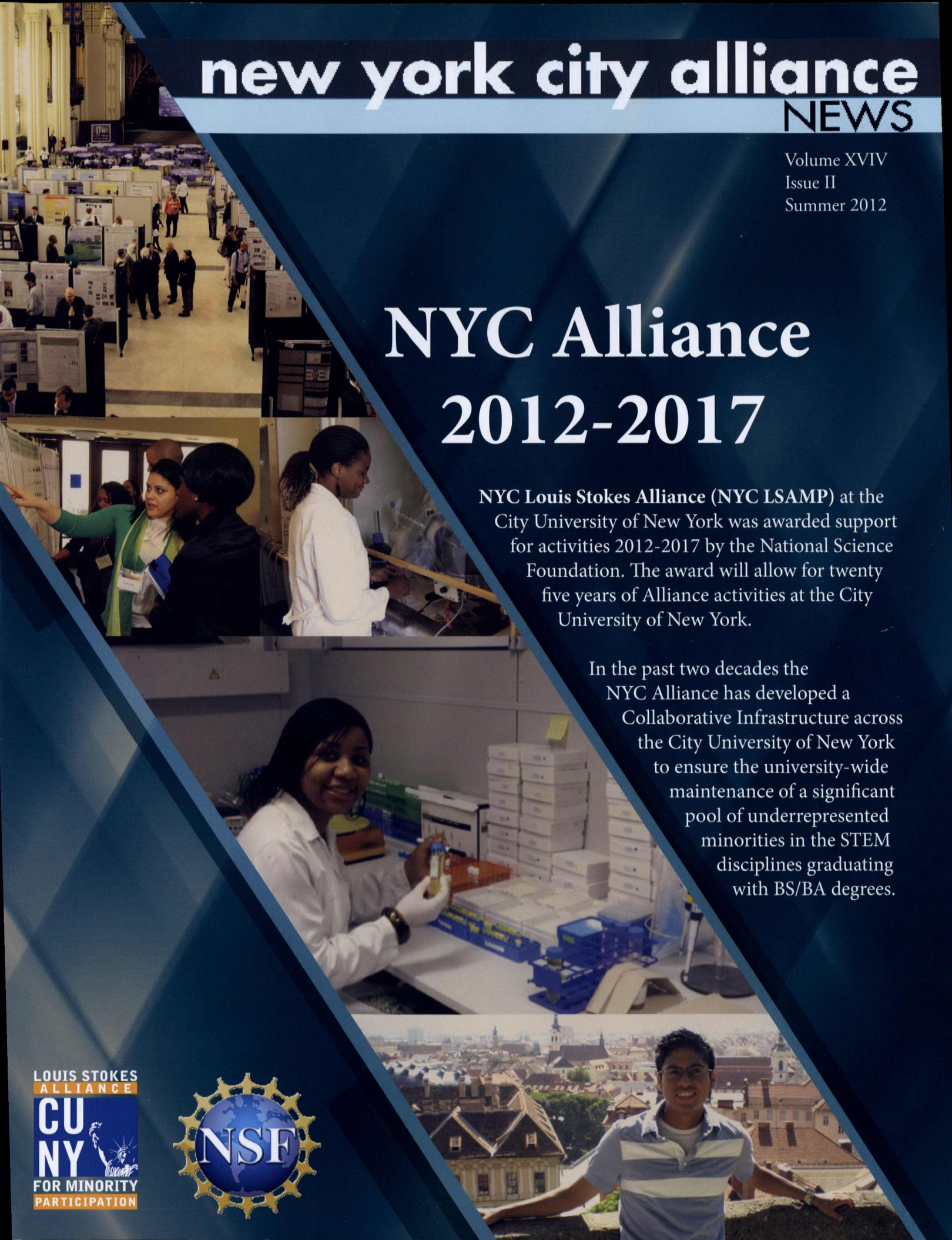
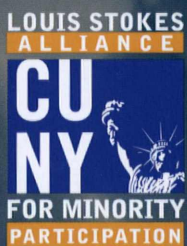
## NEWS

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# NYC Alliance 2012-2017

NYC Louis Stokes Alliance (NYC LSAMP) at the City University of New York was awarded support for activities 2012-2017 by the National Science Foundation. The award will allow for twenty five years of Alliance activities at the City University of New York.

In the past two decades the NYC Alliance has developed a Collaborative Infrastructure across the City University of New York to ensure the university-wide maintenance of a significant pool of underrepresented minorities in the STEM disciplines graduating with BS/BA degrees.





NATIONAL SCIENCE FOUNDATION,  
LOUIS STOKES ALLIANCE FOR MINORITY  
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## Collaborative Infrastructure

To remain competitive and to regain our lead globally, US higher education programs must produce more graduates in the STEM disciplines. Participation from all communities across our nation is a national imperative. The Collaborative Infrastructure includes the leadership, financial and physical commitments of three Chancellors, Campus Presidents and Senior Administrators who serve on the Steering Committee, and the dedication of Faculty members who now mentor the LSAMP Scholars.



# Student Success Towards Graduation in STEM

- Continuation of the Integrated Research Strategies approaches allowing for earlier exposure to the STEM enterprise across CUNY, particularly at the Community Colleges, a major entry point to underrepresented Minorities in CUNY.
- Course and curriculum improvements in areas such as the chemical sciences, which serve as a major entry point to a number of other STEM disciplines, as well as a basis for other disciplines such as environmental sciences and sustainability.
- Pathways-The approach based on the General Education Framework, the Pathway for the Largest Transfer Majors and Full Course Transferability system-wide.
- The NYC Alliance 2012-2017 will continue to focus on strategies to increase the enrollment and graduation of underrepresented minorities to 1000 degrees per year.



## Partnerships and Collaborations:

- Inter-LSAMP Collaborations will be further developed to include Summer Research and International collaborations, in addition to the National Alliance Conferences, Expos, the Urban University Conference Series, ProjectSTEM and the Bridge to the Doctorate Retreat.





# Community College Focus

- An Activity Coordinator will work with Community College coordinators faculty to identify LSAMP Scholars eligible for Transfer.
- Create a CUNY-wide advisory committees composed of Directors of CUNY Institutes and Centers to provide Summer Research Assistantships to Community College students.
- Engineering Immersion Experience in Robotics for community college transfer students
- Continued participation in DOE programs at National Labs
- Increased participation in International Research and Service Learning experiences for STEM enrollees, particularly in the first two years of college.



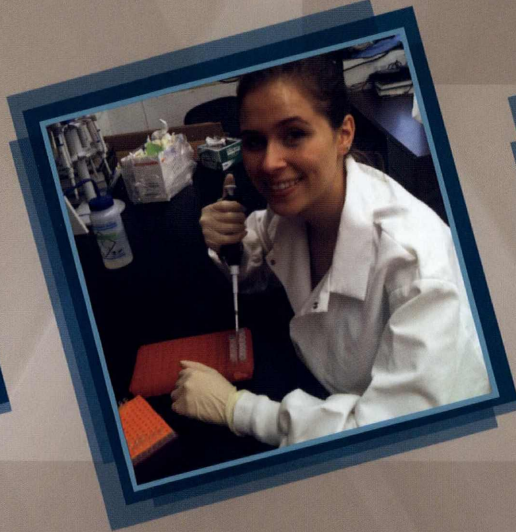
## Research and Training

- Create CUNY-wide advisory committees composed of Directors of CUNY Institutes and Centers to provide CUNY based, national and international research and training opportunities to LSAMP Scholars
- Creation of discipline/area specific clusters and study groups and promote participation by students in these groups-Weekly area roundtable discussions with LSAMP Scholars
- Allow for innovative STEM curricula that are multidisciplinary in scope, with the ability to attract and retain undergraduates in the traditional STEM disciplines as well as emerging/established areas such as Sustainability, Transportation, New Media, Entrepreneurship, Nanotechnology, Climate Change, Energy, Environmental Sciences, GIS, and Urban Ecology.



# Summer Opportunities for Research Training

- Encourage and support student participation in a summer internship program at CUNY campuses, CUNY Institutes and Centers, National Engineering and Science Centers, such as NSF CREST Centers, NASA, NIH, DOE, NOAA and other research institutions
- Enhance and expand student research activities in independent study, honors research and study abroad opportunities
- Increased Participation in opportunities for Global Training and Service Learning
- Participation in Innovation and Entrepreneurship activities across CUNY and Nationally
- Developing a suite of federal and local STEM industry partners in a two-way exchange mode that would be beneficial to students and the STEM industry.





# Preparing Future Faculty

- Establish a Council of Faculty Alumni at CUNY working closely with the Directors of CUNY Institutes and Centers to mentor Graduate Scholars
- Utilize the CUNY Summer Research Opportunities Program to train-Graduate Student Advisors
- International Research/ Opportunity for Global Training and Service Learning



## Summer Institute for Field Investigations (SIFI)

The Summer Institute of Field Investigations (SIFI) will broaden participation in STEM disciplines and sub-disciplines in the areas of Marine Science, Ecology, Biodiversity and the Environmental Sciences.

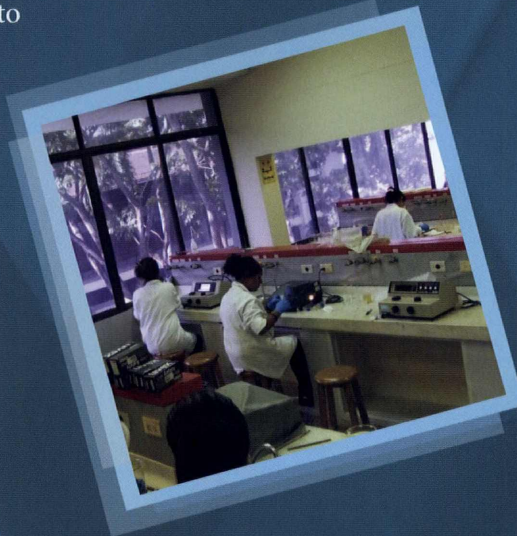
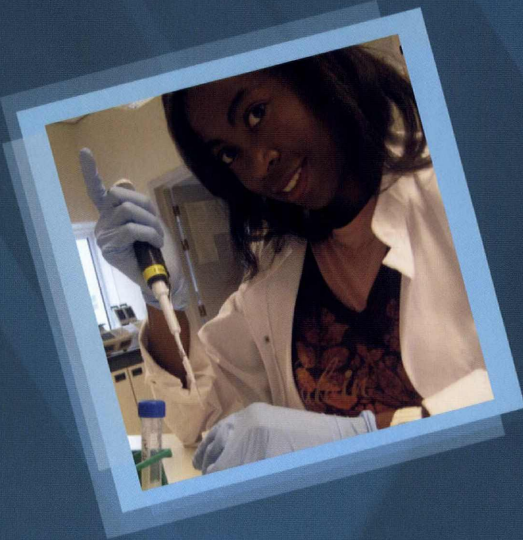
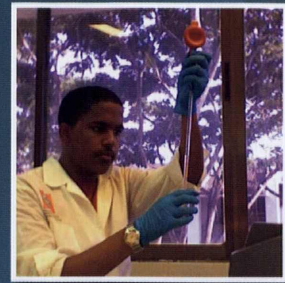




# Global Experience for Minority Scholars (GEMS)

The New York City Alliance program has had modest success in integrating the international experience into the training of the participating LSAMP students. From the 2008 to 2012, over seventy (70) NYC LSAMP participants (undergraduate and graduate) engaged in research or educational experiences internationally.

Three modes are envisioned. The first involves students engaged in an area specific research experience (Neuroscience, Material Science or Environmental Monitoring), a second linked to individual CUNY faculty research projects, and a third based on a group model of four to six LSAMP scholars working on a specific research area.



## Entrepreneurial Activities

The objectives of the Entrepreneurial Concept Competition (ECC) are to encourage students to develop their entrepreneurial ideas and enhance understanding of requirements for a successful business venture.

<http://www.cunyecc.org>



## Bridge to the Doctorate

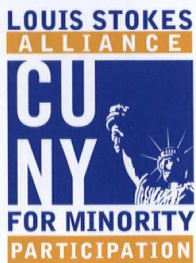
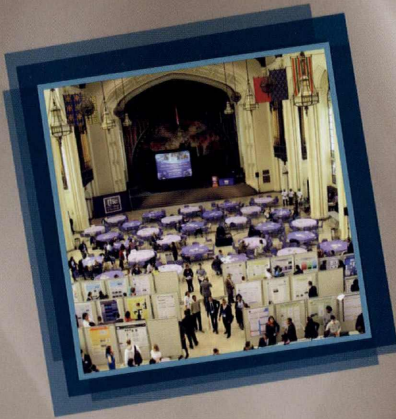
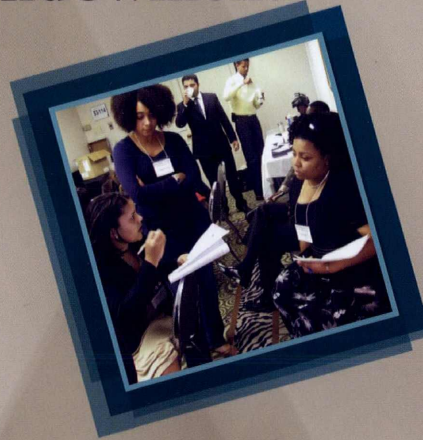
A series of activities designed and implemented to ensure the transition to doctoral programs. These activities serve to create a learning community of scholars across the campuses given the fact that the participating students take courses and conduct research at different campuses.





# Establishment of an Endowment for the Louis Stokes Alliance

The Alliance will continue to build on the initial grants from the Pfizer, Carver Bancorp, Bristol-Myers Squibb and Sony Foundations to augment resources for student support 2012- 2017.



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