

25th Anniversary HENAAC Conference

“Forged by Tradition, Fueled for Tomorrow”

October 3 - 6, 2013

New Orleans, Louisiana



CONFERENCE OVERVIEW

Thank you to all our sponsors and attendees for participating in the 25th Anniversary HENAAC Conference powered by Great Minds in STEM™ (GMiS). GMiS is especially appreciative of all the support we received during the federal sequestration, and government shutdown that went into effect on October 1, 2013. In addition we are glad many of our sponsors still travelled during Tropical Storm Karen and literally weathered a tough storm to be with us! We are proud to share our conference overview and are happy to provide additional information upon request. Please **Save the Date** for our **26th HENAAC Conference**, in **New Orleans, LA**, from **October 2-4, 2014!** In the meantime, please visit our website – www.greatmindsinstem.org - for more information, photos and videos about our 25th Anniversary HENAAC Conference.

PROFESSIONAL SUMMARY

Despite the federal sequestration, government shutdown, and Tropical Storm Karen, GMiS hosted an engaged group of professionals, including 52 HENAAC Award winners, several of which participated at their own expense. In addition, for the first time, GMiS recognized its first HENAAC Scientist of the Year, Dr. Annabelle Rodriguez-Oquendo, Linda and David Roth Chair of Cardiovascular Research and Professor of Cell Biology, at the University of Connecticut Health Science Center. She joined our HENAAC Engineer of the Year, Mr. Christopher M. Hernandez, Vice President of Advanced Weapons Systems, at Northrop Grumman Corporation.

Number of Professionals **842**

Representation by Sector	64% Corporate	7% Military	15% Academia (K-20)
	6% Government	8% Non-Profit	

Number of HENAAC Professional Award Winners **52** (40 percent female)

Representation by Sector	38% Corporate	31% Military	13% Academia (K-20)
	13% Government	4% Non-Profit	

COLLEGE STUDENT SUMMARY

Great Minds in STEM™ continued to showcase and recognize its most technically-talented students through the HENAAC Scholars Program, Protégé Mentorship Program, HENAAC College Bowl™, and Technical Papers and Posters Competition. As a national conference, GMiS attracted undergraduate and graduate students from 96 2-year and 4-year colleges and universities across the United States and Puerto Rico. The institutions included Research I institutions, Hispanic-Serving Institutions, and Historically Black Colleges and Universities.

In total, GMiS awarded close to over \$104,000 in travel grants for students. This was in addition to just under \$256,000 provided in scholarships and competition awards. This year, GMiS surpassed its \$2M in direct scholarship support to over 830 college students, since the inception of the program!

Colleges and Universities Represented

Arizona State University
 California State Polytechnic University,
 Pomona
 California State Polytechnic University,
 San Luis Obispo
 California State University, Long Beach
 California State University, Los Angeles
 California State University, Northridge
 Columbia University
 Dillard University
 East Los Angeles College
 El Camino College
 El Paso Community College
 Embry Riddle Aeronautical University
 Florida Agricultural and Mechanical
 University
 Florida Atlantic University
 Florida International University
 Georgia Institute of Technology
 Glendale Community College
 Illinois Institute of Technology
 Indiana University
 Interamerican University of Puerto Rico
 Aguadilla Campus
 Iowa State University
 Johns Hopkins University
 Lamar University
 LeTourneau University
 Los Angeles Mission College
 Louisiana State University
 Loyola Marymount University
 Massachusetts Institute of Technology
 Mercer University
 Montgomery College

Morgan State University
 Mount San Antonio College
 New Mexico Institute of Mining and
 Technology
 New Mexico State University
 Northeastern University
 Norwich University
 Oklahoma State University
 Palm Beach State College
 Purdue University
 Rice University
 Rochester Institute of Technology
 Saint Louis University
 San Francisco State University
 Santa Ana College
 Southeastern Louisiana University
 Southern University and A&M College
 St. Mary's University
 Stanford University
 Stevens Institute of Technology
 Texas A&M University
 Texas A&M University - Kingsville
 Texas Southern University
 Texas State University - San Marcos
 Texas Tech University
 The Pennsylvania State University
 Tulane University
 University of Arizona
 University of California, Berkeley
 University of California, Davis
 University of California, Irvine
 University of California, Los Angeles
 University of California, Merced
 University of California, Riverside

University of California, San Diego
 University of Central Florida
 University of Florida
 University of Houston
 University of Idaho
 University of Illinois at Chicago
 University of Illinois at Urbana-Champaign
 University of Maryland, Baltimore
 University of Maryland, College Park
 University of Memphis
 University of Miami
 University of Michigan
 University of New Mexico
 University of New Orleans
 University of North Texas
 University of Puerto Rico at Ponce
 University of Puerto Rico, Mayaguez
 University of South Florida
 University of Southern California
 University of Tennessee - Knoxville
 University of Texas - Pan American
 University of Texas at Austin
 University of Texas at Brownsville
 University of Texas at El Paso
 University of Texas at San Antonio
 University of Texas Health Science Center
 University of the Pacific
 University of Virginia
 University of Washington
 Virginia Polytechnic Institute and State
 University
 Washington University in St. Louis
 Western Governors University
 Xavier University of Louisiana

Number of College Students **837**

Gender

32 % Female
68 % Male

Institutional Type

4% 2-yr Public
7 % 4-yr Private
89 % 4-yr Public

52 % Hispanic-Serving Institutions
**6 % Historically Black Colleges and
 Universities**

Classification

3 % Doctoral
8 % Masters
49 % Seniors
21 % Juniors
10 % Sophomores
6 % Freshmen

Top Ten Majors

27 % Mechanical Eng.
12 % Electrical Eng.
8 % Civil Eng.
7 % Industrial Eng.
5 % Computer Eng.
5 % Computer Science
5 % Chemical Eng.
4 % Aerospace Eng.
3 % Electronics
3 % Manufacturing Eng,

HENAAC Scholars Program

Number Awarded	109	Gender	Classification
		42% Female	6% Graduate Students
Total Awarded	\$ 241,371	58% Male	38% Seniors
			17% Juniors
Average GPA	3.63		22% Sophomores
			17% Freshmen

HENAAC College Bowl™

Number of Students	212	Gender (Students)	Classification
		30% Female	5% Graduate Students
Number of Coaches	63	70% Male	44% Seniors
			29% Juniors
Number of Teams	21		16% Sophomores
			6% Freshmen

Protégé Mentorship Program

Number of Protégés	100	Gender (Students)	Classification
		30% Female	18% Graduate Students
Number of Mentors	50	70% Male	53% Seniors
			19% Juniors
			10% Sophomores

The capacity of the program is 100 protégés and 100 mentors.

Technical Papers & Posters Competition

Number of Presenters	38	Gender	Classification
		43% Female	30% Graduate Students
		57% Male	48% Seniors
			18% Juniors
			3% Sophomores
			3% Freshmen

Travel Grants Program – Students and Educators

College Students

Number of Airfare Grants	201	Total Airfare Grants	\$ 83,337	Total Other Travel Grants	\$ 20,578
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K-12 Students and Educators

Number Supported	435	Total Grants	\$ 17,500
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CAREER AND GRADUATE FAIR

Thanks to our lead conference host sponsors – Lockheed Martin Corporation, The Boeing Company, Northrop Grumman Corporation, and Hyatt Regency New Orleans - and our Academic Hosts – Tulane University, The University of New Orleans, and Louisiana State University – for helping GMIS bring together an opportunistic conference for our underserved students and our STEM recruiters, despite concerns presented by the national economy. Although Tropical Storm Karen may have deterred Louisiana college students from attending the Career and Graduate Fair, those that did attend, were able to capitalize on permanent job and internship offerings at some of our nation's most competitive STEM workplaces.

Number of Participants	1100	Number of Booths	60
Booth Representation by Sector	40% Corporate	12% Military	28% Universities
	13% Government	7% Non-Profit	

K-12 EDUCATION SUMMARY

For the fourth consecutive year, GMiS held its K-12 Educators' Institute, a professional development program, hosting teachers from three states – California, Louisiana, and Pennsylvania. In addition, GMiS continued to host its tradition Viva Technology™ for local high school students. For the first time, a HENAAC Conference Viva Technology™ for local middle school students was hosted due to the sponsorship of Shell Oil Company.

K-12 Educators' Institute

Participants 43

Gender

67% Female
33% Male

Type

7% Administrators
42% HS Teachers
28% MS Teachers
23% ES Teachers

Viva Technology™ – High School

No. of Students 118

No. of Teachers 10

No. of Schools 3

Schools

Eleanor McMain Secondary High School (New Orleans)

McDonogh 35 College Preparatory High School (New Orleans)

Warren Easton Charter High School (New Orleans)

Viva Technology™ – Middle School

No. of Students 269

No. of Teachers 20

No. of Schools 6

Schools

Gretna Middle School (Gretna, LA)

John Q. Adams Middle School (Metairie, LA)

L.H. Marrero Middle School (Marrero, LA)

Livaudais Middle School (Terrytown, LA)

L.W. Ruppel Academy for Advanced Studies (Gretna, LA)

T.H. Harris Middle School (Metairie, LA)

ADDITIONAL INFORMATION

Conference Sponsorship - Bertha Haro, M.P.A., Director of Development – bharo@greatmindsinstem.org

Professional Programs – Monica Villafaña, Esq., Director of Professional Programs - mwillafana@greatmindsinstem.org

University Programs – Gary Cruz, Ph.D., Sr. Manager of University Programs - gacruz@greatmindsinstem.org

K-12 Programs – Lupe Muñoz-Alvarado, M.A., Director of Education Programs - lmalvarado@greatmindsinstem.org