33rd Annual GMiS Conference

2021 GMiS Conference Virtual Convening Report

October 11-22, 2021

www.gmisconference.org

"First-Class Diversity, World-Class STEM"
Throughout the pandemic, GMiS pivoted to deliver its access and services to underserved students to continue to amplify their talents and experiences. Building on the success of its first-ever virtual conference in 2020 and coupled with the uncertainty of how the country would fare in Fall 2021 due to COVID-19, GMiS decided to deliver its 2021 GMiS Conference, virtually. Understanding the risks of Zoom fatigue, vaccination protocols, fluctuating travel restrictions, and higher education enrollment patterns, GMiS pushed forward to showcase, “First-Class Diversity, World-Class STEM.”

COVID-19 caused setbacks all across the STEM Enterprise especially in the education progress of our underserved students. The achievement gaps that were closing were suddenly widened, the fading digital divide re-emerged, and students’ mental well-being became a more apparent concern. According to Dorn, et al (2021), at the pre-college level, “unfinished learning” has resulted in students being five months behind in mathematics and four months behind in reading. Nationally, the percentage of freshmen who return for their second year of college declined by an “unprecedented” level during the pandemic, according to a July 2021 report from the National Student Clearinghouse Research Center that tracks national enrollment trends. While in the past few years around 75% of students returned, just 73% of students came back in 2020 — the steepest drop in a decade — the center found (Cal Matters, https://nscresearchcenter.org/)

By hosting its national conference, virtually, GMiS sought to mediate the negative STEM career pathway impacts the pandemic created. GMiS successfully convened its strategic partners representing a cross section of leading industries, laboratories, government agencies and academic institutions. The Class of 2021 HENAAC honorees - a stellar class of strong, resilient and visionary STEM role models - shared meaningful and inspirational success stories that serve as pathways and beacons of hope.

To enhance the virtual student engagement, GMiS incorporated the following:

- Expanded its STEM-Career Readiness Coaching Sessions for an entire month pre-conference
- Brought back its GMiS College Bowl – virtually
- Implemented Discord as the primary student chat platform
- Hosted three virtual student testimonial contests
- Expanded the virtual career fair by two hours each of the two days
- Added a second Speed Networking Session
- Added Graduate School Roundtables

Students appreciated these additional engagement activities, which provided them more flexibility as they pursued their on-campus and online classes. As this country emerges from the COVID-19 pandemic, GMiS remains committed to providing programs and services to empower the STEM Identity and STEM-career readiness of our underserved students. This report is a summary of the impact on student engagement.

To learn more about how you can support GMiS in advocating for student success, please visit our website at www.greatmindsinstem.org or email info@greatmindsinstem.org. We look forward to seeing you in-person at our 2022 GMiS Conference, in Pasadena, CA.

Juan Rivera, Ph.D.                              Bertha Haro
Acting CEO and Board Chairman                Executive Director
Virtual 2021 GMiS Conference
October 11 – 22, 2021
“First-Class Diversity, World-Class STEM”
Conference Profile

1,993 Participants
84 Events
12 Days
6 Virtual Platforms
2 Career Fair Days
0 Down Time
139,217 Conference Portal Loads*
5,400 Conference Website Loads*

* The reporting period for these metrics is 10/11 – 10/22

Thank You to Our Sponsors

Host Sponsors

Academic Hosts

PRE-CONFERENCE ENGAGEMENT

STEM Career Readiness Coaching Sessions

In advance of the two-week conference, GMiS hosted a series of small-group, focused webinars to prepare students for the conference. These 45-minute sessions provided one-on-one resume reviews, virtual interviewing strategies, how to curate an online presence, and how to navigate a virtual career fair.

Conference Website Launched!

GMiS officially launched its Conference Website on August 22. Through the start of the conference, there were over 13,800 conference page loads.
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CAREER FAIR

1,286
Est. Unique Participants

55
Entities Represented

4,245
Chats

3.3
Avg. Chats*

1:2
Recruiter:Job Seeker Ratio

*GMIS engaged Brazen to power its virtual career fair. According to Brazen, the average number of chats per job seeker is two, and the average Recruiter:Job Seeker ratio is 1:10.

Percent Exhibitors by Sector

Corporate
Universities
Military
Government
Non-Profit

34
13
19
28
6

COLLEGE STUDENTS

*Based on participant data

Unknown, 2%
Female 30%
Male 68%

White 18%
Asian/Pacific Islanders 19%
African American 6%
Native American 1%
Other/No Response 2%

Hispanic 54%

INFORMATION CURRENT AS OF 10/31/21
"All the advice gave me a sense of comfort and understanding on how to approach different things and to continue to learn about myself and understand what roads to take." – Student Participant
Student Attendance by Institutional Type

<table>
<thead>
<tr>
<th>Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Yr, Public</td>
<td>86%</td>
</tr>
<tr>
<td>4-Yr, Private</td>
<td>8%</td>
</tr>
<tr>
<td>2-Yr, Public</td>
<td>4%</td>
</tr>
<tr>
<td>Hispanic-Serving Institutions</td>
<td>81%</td>
</tr>
</tbody>
</table>

133 Colleges and Universities Represented – Conference Wide

Albion College
Arizona State University
Athens State University
Binghamton University
California Baptist University
California Institute of Technology
California State Polytechnic University, Pomona
California State University Maritime Academy
California State University, Bakersfield
California State University, Chico
California State University, Dominguez Hills
California State University, Fresno
California State University, Fullerton
California State University, Long Beach
California State University, Los Angeles
California State University, Northridge
California State University, Sacramento
California State University, Stanislaus College of the Canyons
Colorado School of Mines
Colorado Technical University
Columbia University
Del Mar College
Dominican University
Duke University
East Los Angeles College
El Camino College
El Paso Community College
Embry-Riddle Aeronautical University - Daytona Beach
Florida Gulf Coast University
Florida Institute of Technology
Florida International University
Georgia Institute of Technology
Glendale Community College
Houston Community College
Illinois Institute of Technology
Illinois State University
Indiana Institute of Technology
Indiana University-Purdue University Indianapolis
Inter American University of Puerto Rico, Aguadilla
Inter American University of Puerto Rico, Bayamon
Kean University
Lamar University
Lehman College
Lone Star College System
Los Angeles Pierce College
Los Angeles Trade Technical College
Louisiana State University
Louisiana State University Shreveport
Loyola Marymount University
Macalester College
Marist College
Massachusetts Institute of Technology
Merced College
Miami Dade College
Missouri University of Science and Technology
Morgan State University
New Jersey Institute of Technology
New Mexico Institute of Mining and Technology
New Mexico State University
New Mexico State University at Alamogordo
New York City College of Technology
North Carolina State University
Northeastern Illinois University
Northern Illinois University
Oral Roberts University
Oregon State University
Polytechnic University of Puerto Rico
Prairie View A&M University
Reedley College
Rensselaer Polytechnic Institute
Rice University
Rio Hondo College
Rio Salado College
Rutgers, The State University of New Jersey
Saint Louis University
San Antonio College
San Francisco State University
San Jose State University
Santa Ana College
Seattle University
Stanford University
Teachers College
Texas A&M University
Texas A&M University - Corpus Christi
Texas A&M University - Kingsville
Texas Tech University
Texas Woman’s University
The Pennsylvania State University
Tulane University
Universidad Ana G. Mendez–Gurabo
Universidad de Puerto Rico Recinto de Rio Piedras
University of Arizona
University of Arkansas at Little Rock
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 Central Florida
University of Chicago
University of Florida
University of Houston
University of Houston-Clear Lake
University of Houston-Downtown
University of Houston-Victoria
University of Illinois at Chicago
University of Illinois at Urbana-Champaign
University of La Verne
University of Maryland - Baltimore County
University of New Mexico

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University of Oklahoma
University of Puerto Rico at Arecibo
University of Puerto Rico at Bayamon
University of Puerto Rico at Mayagüez
University of South Florida
University of Southern California
University of Texas at Arlington
University of Texas at Austin
University of Texas at Dallas
University of Texas at El Paso
University of Texas at San Antonio
University of Texas Rio Grande Valley
University of Washington
Vanderbilt University
Ventura College
Virginia Commonwealth University
Virginia Polytechnic Institute and State University
Waukesha County Technical College
West Virginia University

COMPETITIONS

Research Poster Competition

- 77 Accepted Submissions
- 18 Competition Awards

CAHSI Hackathon

- 159 Participants
- 28 CAHSI Institutions

Hidden Messages: TEAM 57
PenTest: TEAM 40
Forensics: TEAM 11
Password Cracking: TEAM 17
1st Overall: TEAM 41
2nd Overall: TEAM 10
3rd Overall: TEAM 49

CAHSI Data Analytics

- 27 Participants
- 15 CAHSI Institutions

1st Place: SOLO
2nd Place: UHD2021

Students competed in Individual Competitions and on two different teams for the Team Competition.

College Bowl 22

- 126 Participants
- 50 Unique winners

10 Individual Winners
1st Place Team: NASA
2nd Place Team: Northrop Grumman Alpha
3rd Place Team: Northrop Grumman One

Over $22,400 in competition awards
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GMiS STEM SCHOLARS

GMiS received over 800 completed applications for the GMiS STEM Scholarships, which offers both merit-based academic scholarships and STEM Civic Leadership Scholarships. This year, scholars were honored virtually at the Scholars Reception and the Student Leadership Awards.

By end of 2021, GMiS will have awarded over $5.3M to more than 1,700 college students, since 2000.

“As a Hispanic woman in STEM, it is important to me to have a support system that understands my background and experiences, and I am grateful that Lockheed Martin has provided me with role models and opportunities that will encourage me in my academic and professional development... this award will provide a springboard that will allow me to make contributions to the advancement of computing, data sciences, and information technology.”
– Isabel O. Gallegos, 2021 GMiS Outstanding Student Leadership Award Recipient

Number of GMiS STEM Scholarships 97
Total Awarded $237,524

<table>
<thead>
<tr>
<th>Classification</th>
<th>Graduate Students</th>
<th>Sophomores</th>
<th>Gender</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average GPA</td>
<td>3.71</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>9%</td>
<td>13%</td>
<td>56%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47%</td>
<td>11%</td>
<td>44%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20%</td>
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The GMiS STEM Scholars are part of the GMiS Scholarship Program which offers year-round scholarships including:

Artemio. G. Navarro Scholarships
For eligible graduating seniors attending Bishop Mora Salesian High School in Los Angeles.

California Medical Scholarships
For eligible underrepresented students pursuing a medical profession in one of these California medical schools – University of California, Davis School of Medicine; University of California, Los Angeles David Geffen School of Medicine; University of California, San Francisco School of Medicine; and University of Southern California Keck School of Medicine.

California Health Scholarships
For eligible undergraduate students pursuing a health-related discipline at a four-year institution in California.
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PROFESSIONALS

Percent Professional Participants By Sector (n=744)

2021 HENAAC Engineer of the Year
Marla E. Pérez-Davis, Ph.D.
Director
Office of the Director
NASA Glenn Research Center

2021 HENAAC Scientist of the Year
Daniela Brunner, Ph.D.
Chief Innovation Officer
Data Sciences & Services Department
PsychoGenics Inc.

2021 Chairman’s Award
Major General R. Mark Toy
Chief of Staff
UNC Headquarters
United Nations Command

Percent HENAAC Award Honorees By Sector (n=47)
(47% Female)
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**SOCIAL ENGAGEMENT**

GMiS used Discord for the first-time. Over **530** users engaged with this communications platform during the virtual conference.

<table>
<thead>
<tr>
<th>Social Media</th>
<th>Impressions</th>
<th>Engagements</th>
<th>Audience</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Facebook</strong></td>
<td>48,559</td>
<td>5,194</td>
<td>5,110</td>
</tr>
<tr>
<td><strong>Twitter</strong></td>
<td>28,532</td>
<td>333</td>
<td>16,099</td>
</tr>
<tr>
<td><strong>LinkedIn</strong></td>
<td>61,510</td>
<td>2,416</td>
<td>3,451</td>
</tr>
<tr>
<td><strong>Instagram</strong></td>
<td>14,296</td>
<td>618</td>
<td>1,206</td>
</tr>
</tbody>
</table>

Numbers from 10/11 – 10/29

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On behalf of the entire GMiS Team, thank you for being part of the virtual 2021 GMiS Conference! Please continue to visit our GMiS Conference Website - [www.gmisconference.org](http://www.gmisconference.org) - to access the on-demand webinars, award shows, GMiS STEM Scholars, and Research Poster Exhibit Hall for the next several months.

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We look forward to seeing you at the 2022 GMiS Conference, in Pasadena, CA, from October 5 - 8, 2022!