

In this issue . . .

Letter From the Chair
MAC Endowment
MAC Member Updates
MAC Leaders in AIChE
Minority Scholarship Update
Janice Lumpkin Awards
Treasury Report
Meeting Minutes

MAC eNews

Vol 4, Issue I March 2017

**Post-Fall Meeting 2016,
San Francisco, CA**

Letter from the Chair

Dr. Belinda Akpa

Dear friends of **MAC**,

Thank you for your continued support of MAC's mission. I'd like to take this opportunity to highlight the work that MAC members are doing and some opportunities for others to get involved.

New executive committee members

First, a warm welcome to our new executive committee members, LaRuth McAfee and Antonio Estévez, and a thank you to our outgoing Past Chair, Isaac Gamwo. Dr McAfee is the Assistant Dean for Diversity, Inclusion, and Funding at the University of Wisconsin Graduate School. She is a chemical engineer whose career is committed to education and diversity in university settings, and she will be our 2018 MAC Chair. Dr Estévez, is a Professor of Chemical Engineering with a 30 year career at the University of Puerto Rico, Mayagüez and an extensive track record of service to the profession via leadership roles in AIChE and the Interamerican Confederation of Chemical Engineering, amongst others. Both Dr McAfee and Dr Estévez are long-standing members of MAC, and we welcome their willingness to serve.



Dr. Belinda Akpa, Chair of MAC

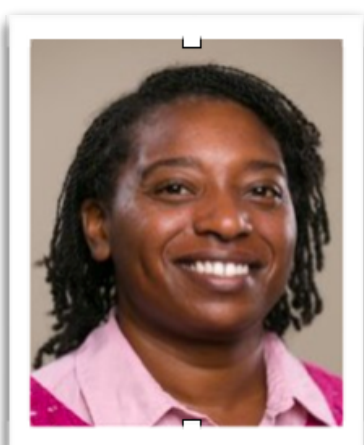
Letter from the Chair

Scholarship program continued successes and a call for volunteer mentors

Next I'd like to thank Emmanuel Dada for his continuing service in running the MAC scholarship and mentoring programs. You'll see in this newsletter that we've been able to award scholarships to 31 college students, both incoming freshman and continuing scholars. We invite you to join us in welcoming these budding young scientists and engineers to the ChemE profession by volunteering as a mentor. The commitment is a minimum of one academic year. Mentoring is carried out primarily by phone and email, so location is not a constraint. For further details on the responsibilities of a MAC scholarship mentor, please don't hesitate to contact me or Dr Dada. We're also looking for volunteers to participate in coordinating the scholarship program. For those of you looking for a way to get involved with service to AICHe and MAC, this would be a great start!

AICHe foundation award for MSI and Student chapter development

And finally, our congratulations to MAC member Sheena Reeves whose proposal to engage minority undergraduates through student chapters at Minority Serving Institutions (MSIs) has been selected for funding by the AICHe Foundation. The project will build on the excellent groundwork Dr Reeves has laid in order to engage underrepresented students and transition them into active AICHe members via mentoring and network building. Be on the lookout for opportunities to engage with this initiative as MAC moves forward in 2017!



Dr. LaRuth McAfee



Dr. Antonio Estévez



Dr. Sheena Reeves

Update on the **MAC** Endowment

MAC Endowment

The MAC Endowment Fund was established in 2016 to provide a secure source of funding for the MAC Scholarship Program, which, since the program began in 1994, has had to turn away thousands of qualified students due to insufficient funds. The goal for the endowment is to raise a minimum of \$300,000 in the next three years to be able to support, in perpetuity, at least fifteen outstanding minority students every year in their pursuit of excellence. As the MAC Endowment Fund continues to grow, so will the number of scholarships each year, creating a lasting legacy that will advance diversity in chemical engineering for decades to come.

Diversity in engineering, and engineering education, is an essential thing to do. The key to advancing our profession and positively impact society is to engage a broad scope of people and perspectives in the pursuit of chemical engineering education and careers. With the help of the MAC Endowment Fund, we hope to do just that, by helping support the best and the brightest pursue their chemical engineer degrees. For more information, please visit <https://www.aiche.org/giving/impact/funds/mac-endowment-fund>

Here are highlights of the MAC Endowment to date:

Financial

- As of 2/1/17, the total amount raised for MAC Endowment Fund is \$79,000.
- \$63,000 raised during 2016, which was ~40% of 2016 goal of \$150,000
- Total Endowment goal is \$300K
- By accumulating over \$50,000, we have officially endowed the scholarship fund for MAC

Special Recognition

- Thank you co-chairs Otis Shelton and Soni Oyekan
- Thank you to Levi Thompson, Andre Da Costa, and Christine Grant for their exceptional generosity and leadership

Here is a list of the current MAC Endowment donors: (found at <https://www.aiche.org/giving/supporters/donors/MAC>).

- | | |
|-------------------------------|---------------------------------------|
| § Luke Achenie | § Gerald A. Lessells |
| § Gilda A. Barabino | § Henri J. Maget |
| § Michael Alexander Chee-Awai | § Alon V. McCormick |
| § Andre Da Costa | § Ogbonnaya C. Okorafor |
| § Omolola Eniola-Adefeso | § Soni O. Oyekan |
| § Tamara Floyd-Smith | § Syamal K. & Susmita Poddar |
| § ExxonMobil Foundation | § Sheena M. Reeves |
| § Gregory T. Frank | § Otis A. & Phyllis Shelton |
| § Zenaida Otero Gephardt | § John C. Tao |
| § Christine S. Grant | § Levi T. Thompson |
| § Demarcus L. Hunter | § James Wei |
| § Peter B. & Susan Lederman | § June C. Wispelwey & Mark B. Bradley |
| § MaryKathryn Lee | § Katherine S. Ziemer |

MAC Members Named to Prestigious Roles

MAC Member Updates



Dr. Paula Hammond

Dr. Paula Hammond, the David H. Koch Professor, head of the Department of Chemical Engineering, and member of the Koch Institute for Cancer Research at MIT, was recently elected a fellow of the National Academy of Engineering for contributions to self-assembly of polyelectrolytes, colloids, and block copolymers at surfaces and interfaces for energy and health care applications.



Dr. Kristala Prather

Dr. Kristala Prather was recently promoted to Full Professor at MIT. Her lab's research focuses on the design and assembly of recombinant microorganisms for the production of small molecules.

MAC Members Elected to Leadership in AIChE

MAC Leaders in AIChE

Join Us in Congratulating Kathy Lee for her Election to the AIChE Board of Directors for
2017-2019



MaryKathryn Lee

Our Past Chair Mary Kathryn Lee is now on the AIChE Board of Directors for 2017-2019! Kathy Lee is a chemical engineer at Exxon Mobil Corporate Strategic Research (Annandale, NJ). As two-time Chair of MAC, Kathy chaired the MAC@25 celebration, which was a milestone for MAC that celebrated the contributions of its members throughout the years and brought attention to MAC's goals for the future. She also changed the scholarship funding formula to a more sustainable model to help ensure the availability of funds for future scholarships and the growth of the program. Kathy initialized programs to reach out to the student chapters of Historically Black Colleges and Universities. Her excellent leadership will surely benefit the AIChE Board of Directors.

Congratulations to 2015 MAC Chair, Dr. Isaac K. Gamwo on being elected a Director of AIChE's Separations Division!



Dr. Isaac Gamwo

The AIChE's Separations division has elected Dr. Isaac Gamwo via electronic ballot to a 5-year term as a Director of the Separation Division effective January 1, 2017. Dr. Gamwo is a senior research chemical engineer at the U.S. Department of Energy's (DOE) National Energy Technology Laboratory (NETL) working with in the Research and Innovation Center in Pittsburgh, PA.

2016-2017 Minority Scholarship for Incoming Freshmen

Scholarship Update

Minority Affairs Committee

Congratulations to the 17 Students who were awarded the 2016 Minority Affairs Committee Scholarship Award for Incoming Freshmen!

The MAC Scholarship Award for Incoming Freshmen is presented to high school graduates planning to enroll during the current academic year in a four year college or university offering a science or engineering degree. It consists of \$1000 per student per academic year, renewable to following year as long as the student continues to meet eligibility requirements. Although the award is preferentially given to students admitted to chemical engineering programs, it is also awarded to students admitted to other types of science and engineering programs. This year, eight of the seventeen awardees plan to pursue the chemical engineering major.

2016-2017 Incoming Freshmen Minority Scholars

LaMiah Tysinger	North Carolina A&T State University
Tyson-Jay Saena	Harvey Mudd College
Chloe Winter	California Baptist University
Zyheir Williams	Rutgers University
Nathan Garcia	Univeristy of Florida
Widcharid Faustin	Drexel University
Amanda Hernandez	University of California Berkeley
Sara Taha	Long Island University
Cameron Lavergne	Trinity University
Malik Lyder	Kennesaw State University
Aranza Barreda	University of Kansas
Minela Silva	University of California Irvine
Drew Carrillo-McGoldrick	Texas A&M University
Camryn Purdom	Whittier College
Kaleigh Wingate	Wake Forest University
Rolando Tyler	Rose-Hulman Institute of Technology
Daniel Medina	Baylor Univeristy

2016-2017 Minority Scholarship for College Students

Scholarship Update

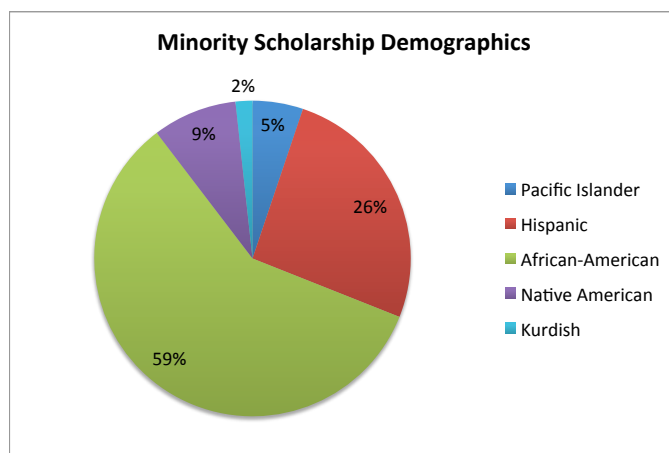
Minority Affairs Committee

Congratulations to the 14 students who were awarded the 2016-17 AICHe Minority Scholarship for College Students. The award is presented to undergraduates studying chemical engineering who are members of an underrepresented minority group. The award consists of \$1,000 per student per scholastic year, renewable to the following year as long as the student continues to meet the eligibility requirements.

This outstanding group of scholars has an average GPA of 3.61 on a 4.00 scale. In addition, eight of the fourteen scholars are being awarded the scholarship for the first time. Six of the fourteen awardees are being renewed for an existing scholarship awarded the previous year.

2016-2017 Minority Scholars

Chris Hirani	University of New Mexico
Ozoemena Anyaegbu	Prairie View A&M University
Olamide Alabi	Wayne State University
Kayla Murphy	Indiana University
Dalton Myas	Oregon State University
Jordan Banks	University of Illinois at Urbana-Champaign
Shakar Ali	University of Utah
Quinten Murphy	Indiana University
Kobi Felton	North Carolina State University
Milena Nino	Johns Hopkins University
Deonante Frazier	Mississippi State University
Maria Troyer	New Mexico Institute of Mining and Technology
Jessica Marquez	Worcester Polytechnic Institute
Aaron Melad	New Mexico Institute of Mining and Technology



Combined Minority Scholarship for College Students and Incoming Freshman
Minority Scholarship Demographics from 2015 and 2016

2016 Janice Lumpkin Travel Awards

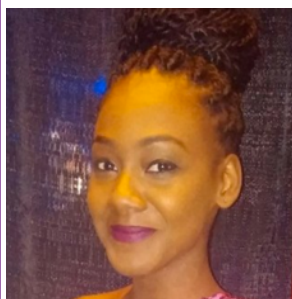
Janice Lumpkin Awards



Dr. Janice Lumpkin

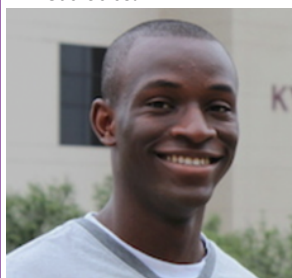
This year, Sue Celestin, Chibueze Amanchukwu and Michael Chee-Awai won the Janice Lumpkin Travel Award. The Janice Lumpkin award includes free registration to the AICHe Annual Conference plus a \$500.00 travel allowance to help offset the costs of attending the conference.

The award is named in honor of Dr. Janice Lumpkin, who was an Assistant Professor of Chemical and Biochemical Engineering at the University of Maryland Baltimore County. Dr. Lumpkin is remembered for her passion for teaching, her dedication to her family, and her commitment to inspiring women and minorities to pursue studies in science and engineering.



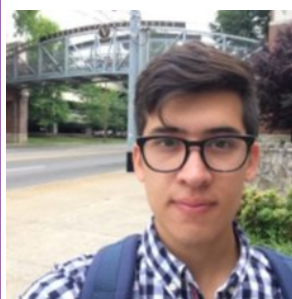
Dr. Sue Celestin

Janice Lumpkin award winner Sue Celestin, Ph.D., is a research assistant at Northeastern University. She received her Ph.D. from Northeastern University in 2017. Her research has focused on solid oxide fuel cell simulation of a hybrid system for power generation and the impact of secondary organic aerosols on the environment.



Chibueze Amanchukwu

Janice Lumpkin award winner Chibueze Amanchukwu is a doctoral candidate at MIT who works in the Hammond Lab. His research is focused on developing a solid-state electrolyte for Li-Air Batteries. He graduated with a Bachelor's in Chemical Engineering from Texas A&M University in 2012. He is also a past MAC scholar.



Michael Chee-Awai

Janice Lumpkin award winner Michael Chee-Awai is a project engineer at Alcor Petrolab & Phoenix Chemical Labs. He graduated with a Bachelor's in Chemical Engineering from Vanderbilt University in 2015. He has been with MAC since 2015, first writing the newsletter and then serving as Secretary.

MAC Leadership 2017

Chair: Belinda Akpa belinda.akpa@gmail.com
 Vice-Chair: LaRuth C McAfee laruth.mcafee@wisc.edu
 Vice-Chair: Antonio Estevez antonio.estevez@upr.edu
 Past-Chair: Kathy Lee kathy.m.lee@exxonmobil.com
 Treasurer: Joe Howard noirmal@aol.com
 Secretary: Michael Chee-Awai michael.a.chee-awai@vanderbilt.edu
 Officer: Emmanuel Dada emmanuel.Dada@ymail.com
 Staff Liason: James Abel jamea@aiche.org

Contact the Editor:

Michael Chee-Awai michael.a.chee-awai@vanderbilt.edu

AICHe Statement of Revenue and Expenses For the Eight Months Ending August 31, 2016

Minority Programs 20-481

Acct	Description	2016 August Actuals	2016 Y-T-D Actuals
Revenue:			
40702	Contributions - Members	\$2,905.00	\$4,972.00
	Total Revenue	2,905.00	4,972.00
Direct Expenses:			
51225	Audio Visual Equipment Rental	0.00	879.39
52201	Telephone	0.00	17.82
54101	Site Costs - Coffee/Beverages	0.00	402.83
55115	Scholarships	0.00	(1,000.00)
	Total Expenses	0.00	300.04
	Net Income - Profit/(Loss)	2,905.00	4,671.96

**MAC Fall Business Meeting
November 11, 2016
Hilton Union Square San Francisco**

Minutes and Notes

1. Introductions - please see attendee list below
 - Review of MAC 2016 and appreciation from out-going Chair
 - ¥ Represented in programming at Annual Meeting
 - ¥ Strengthened relationship with Local Sections with scholarship support
 - ¥ 2 major revisions/additions to the bylaws to increase transparency and alignment
 - ¥ Secured major funding from the Foundation
 - ¥ Advanced a major proposal with innovative outreach model
 - ¥ Restructured funding model
 - ¥ Launched MAC Endowment
 - ¥ MAC Futures Fund

Thank you to Executive Committee
Belinda Akpa-incoming chair
DeMarcus Hunter-Secretary
Joe Howard-Treasurer
Isaac Gamwo- Past Chair

Additional thanks to our very active membership
Michael Chee-Awai-Newsletter editor
Sheena Reeves
Christine Grant
Emmanuel Dada
Thomas Mensah
Cato Laurencin
Otis Shelton

2. By-Laws Proposal - Awards Subcommittee

Motion to add award Subcommittee to by-laws - exact language to be polished by executive committee. A vote to carry this forward was approved by the general body in Fall 2015.

A motion was made to consolidate all awards except scholarship and proceed with a simplified model of the AIChE method of coordinating awards committees. Additional suggestion of term limits for awards committee members. The motion carried with no dissenting votes.

Awards Subcommittee

Goal: Add an Awards Sub-Committee to the MAC By-laws

Why: Align MAC procedure with AIChE procedure and use AIChE infrastructure to manage nomination packages

Name and describe MAC awards

Consolidate all MAC awards into a common system

Refresh our webpage to clearly reflect the nomination procedure and each award's eligibility requirements

Procedure The resolution to change the by-laws was proposed by an Executive Committee Officer

The resolution was presented in writing

Approved by the Executive Committee

Presented to the membership for vote

Section 4 h. Awards Subcommittee

Membership: Former Executive Committee member, Awards committee chair appointed by MAC chair, past MAC Chair, Chair of Scholarship Committee, two Advisory members appointed for a term of 2 years by the chair

Description: Oversee and coordinate award opportunities for underrepresented minorities within the Institute

Activities: This subcommittee will coordinate nominations and awards given by MAC included but not limited to Distinguished Service Award, Eminent Engineers Award, William Grimes Award and Janice Lumpkin Travel Awards

2. By-Laws Proposal – MAC Advisory Board (presentation by O. Shelton)

Summary/additions

✎ MAC Advisory Board proposed to the members in Spring 2016

✎ Members have said there will need to be term limits.

✎ Board would suggest initiatives to MAC but not act on it directly

✎ Will be revisited when the language is smoothed out.

✎ Will also need a dissolution clause if it turns out not to be fruitful

✎ Expected a final up or down vote during Annual conference 2017.

3. Elections

Chair-elect: Two nominations LaRuth McAfee, Antonio Estevez

Chair moved to have both a 1st and 2nd chair elect. Motion carried that we have 2 chair elects; no dissenting votes.

This is a new situation for MAC. Chair-Elect (now Chair) along with Executive Committee will determine duties and position titles for the two new elected officers.

Treasurer: Joe Howard, although not present, consented to run as Treasurer. Joe Howard has been acting treasurer, completing the term of a previous officer. He had been confirmed in this office in 2015. He has been unanimously re-elected for the 2017-2018 term.

4. Fundraising Report

K. Lee gave a review of funding sources and fundraising activities. The slide is below:

MAC Funding Sources

- Member check-off dues – general activities
- MAC Futures Fund - Scholarships
- AIChE Foundation – Scholarships, Proposal
- Local Section Grants/Gifts – Scholarships
- Corporate Funds (?) – Scholarships
- MAC Endowment

5. Treasurer's Report: Up-to-date treasurer's report to include year-end status to be included in newsletter

Summary: There is a decline in member contributions to Minority Programs. Alarming trend lets correct it.

6. HBCU Proposal - Summary/Review

¥ Focus on HBCUs and minority serving institutions in her proposal

¥ Sheena proposes to connect them through to the local chapter

¥ Sheena needs help identifying a person to make these connections in initially targeted schools: Hampton, Tuskegee, Howard, NC A&T

¥ Check Volunteer Central in 2017

7. Minority Faculty Forum Update

¥ MFF is looking at how to look at diversity in chemical engineering students

¥ How do we leverage programming and making sure minority faculty have presence around the Institute?

¥ MFF has an online networking system.

¥ MFF leadership: Gilda Barabino (Chair), Lola Eniola Adefeso (Vice Chair)

Attendees of the 11/14 MAC Business Meeting

James Abel
L. Antonio Estevez
Syamal Poddar
Lance Collins
Gilda Barabino
Luke Achenie
Tim Odi
Michael Chee-Awai
Sue Celestin
Sammy Eni Eni
Bobby Harvey
Walter Barnes II
Manuela Ayee
Tianxing Cai
Fikile Brushett
Christine Grant
Otis Shelton
Tom Mensah
Robert Ofoli
LaRuth McAfee
Gordon Ellis
Lola Adefeso
Kathy Lee
Belinda Akpa
Chibueze Amanchukwu