

# 2022 Program

The Metropolitan Club of New York
Wednesday, December 7, 2022 | 11:00 am -2:30 pm

Chemical Marketing & Economics, Inc.



## Menu

Cucumber Basket Red Oak & Baby Lettuces Teardrop Tomatoes, Dried Cranberries, Pecans, Sliced Breakfast Radish, Shaved Parmesan, White Balsamic Vinaigrette

Char-Grilled Black Angus Filet Mignon Frizzled Leeks, Horseradish Whipped Potato, Pencil Asparagus, Cognac Peppercorn Sauce

Trio of Sorbet & Gelati Dark Chocolate & French Vanilla Gelato Raspberry Sorbet, Almond Tuile Cup Fresh Berries, Raspberry Coulis, Mint

Freshly Brewed Coffee & Tea



# Program

11 am – Registration
 12 pm – Luncheon
 Remarks – Shah Karim, CME Treasurer
 Partner – Mark Eramo, S&P Global

#### 1 pm – Award Introduction

Welcome – Steve Barnett, CME Co-Chair Introduction – George Rodriguez, CME Host Remarks – Owen Jappen, CME Secretary Keynote Speaker – James Green, NASA

#### **Awards Presentation**

Event Co-Chair – Edward Monser, Air Products

Honoree: Lifetime Achievement – Seifi Ghasemi, Air Products Event Co-Chair – Jeff Dormo, Honeywell Fluorine Products

Honoree: Diversity & Inclusion - Jim Fitterling, Dow

#### Closing

Remarks – Ksenia Takhistova, CME Co-Chair

2:30 pm – Meeting Adjourned



# 2022 Lifetime Achievement



Seifi Ghasemi

As the world undergoes a massive energy transition, the visionary leadership of Seifi Ghasemi, Air Products' Chairman, President and CEO, has been breathtaking, building a world-leading industrial gases company with a first-mover position in clean hydrogen megaprojects to decarbonize heavy transportation and industrial sectors. His commitment to creating a diverse, inclusive, winning team and supporting programs for diverse STEM talent has further translated into outstanding market value growth. He deeply believes the only sustainable competitive advantage a company has is the dedication and commitment of people who thrive in a culture where contributions are valued and who serve a higher purpose of making our world a better place. Mr. Ghasemi is a member of the Business Council and is on the Board of Directors of the US-India Strategic Partnership Forum and the US-China Business Council. He previously held leadership roles at Rockwood Holdings, GKN, and The BOC Group.



# 2022 Diversity and Inclusion



Jim Fitterling

Jim Fitterling is chairman and CEO of Dow, a global materials science company with 2021 sales of \$55 billion. He is leading Dow toward its ambition of becoming the world's most innovative, customer-centric, inclusive, and sustainable materials science company. He is a strong advocate for Environmental, Social and Governance (ESG) driven performance and is a vocal champion for inclusion, diversity, and STEM education. He is widely recognized as a leading voice in advancing workplace equality as well as diversity and mentorship in STEM. During his 38 years at Dow, Fitterling has led many of the Company's business units and operations. He was instrumental in launching Dow's next-generation sustainability goals and spent a third of his career in Asia. Fitterling was named CEO July 2018 and elected chairman April 2020. Fitterling is Chair of the Board of the National Association of Manufacturers and serves on several national and global boards.



# 2022 Keynote



James Green

For its trailblazing missions that ushered in a golden age of planetary exploration, NASA has earned its place as the top global STEM brand. And James Green, NASA Senior Advisor and Chief Scientist Emeritus, has played a key role in this exciting journey by expanding the access to scientific research about space and managing missions like the Mars rovers Spirit, Opportunity, Curiosity and Perseverance; the Mars helicopter Ingenuity and the New Horizons mission to Pluto and beyond. His drive to grow a diverse STEM talent pool has been crucial to the CME NASA Symposium and to the CME NASA Sustainability Conference selection as the forum for a Roundtable focused on the Roadmap for Space Chemistry. His numerous awards include NASA's Exceptional Achievement Medal, the Arthur S. Flemming Award, Japan's Kotani Prize and the 2018 CME STEM Leadership Award for Propelling Space Science. In 2017, asteroid 25913 Jamesgreen was named after him.



# Speakers

CME Host

George Rodriguez Argeni Director ACS Fellow

CME Partner



Mark Eramo S&P Global Commodity Insights Sr Vice President

**Event Co-Chairs** 



Air Products **Board Member** 

Edward Monser



Honeywell Fluorine Products VP and General Manager

CME Co-Chairs



CME General Counsel Tech & IP Attorney



Connell Foley Partner, Health, Safety & Environment Innovation Fellow



CME Treasurer -

Shah Karim SafeRock CEO Columbia University

CME Secretary

Jeff Dormo



Owen Jappen American Chemistry Council Director of Chemical Products and Technology



### **Awards**

Established in 2012, the CME STEM Leadership Awards<sup>™</sup> are the highest honors given by the Chemical Marketing and Economics, Inc. (CME) to outstanding leaders in various sectors of society for harnessing the transforming power of science, technology, engineering and mathematics (STEM) for the benefit of humanity.

# **About CME**

Chemical Marketing & Economics, Inc. (CME) located in Morristown, NJ, is focused on accelerating diverse Space Age STEM talent leadership for sustainable innovation and environmental stewardship with high global impact. CME organizes exciting events to inspire the next generation of STEM professionals such as monthly STEM Talks by Thought Leaders as webinars, or luncheons at select NYC landmarks, the CME NASA Symposia, CME NASA Sustainability Conferences, Space Chemistry Roundtable, CME PMSE Student & Mentor Awards and International STEM Festivals. CME is the proud National Partner of the American Chemical Society Scholars Program to advance underrepresented minorities.

Established in 1954 as a New York Section topical group of the past Chemical Marketing & Economics Division of the American Chemical Society (ACS), CME is today an independent 501(c)(3) nonprofit that organizes events in collaboration with the foremost space agency in the world—the National Aeronautics and Space Administration (NASA), the International Space Station (ISS) U.S. National Lab, ACS Technical Divisions and Chapters, U.S. Department of Energy, and the American Chemistry Council. Website: www.cme-stem.org



## Past Honorees

#### 2021

Lifetime Achievement Daniel D'Aniello (Carlyle)

Corporate Reinvention Ken Frazier (Merck)

#### 2019

Extraordinary Innovation Martin Brudermüller (BASF)

Global Growth Bob Patel (LyondellBasell)

#### 2018

Lifetime Achievement Henry Kravis (KKR)

Corporate Reinvention Ed Breen (DowDuPont)

STEM Philanthropy James and Marilyn Simons

#### 2017

Lifetime Achievement Roque Benavides (Buenaventura)

Science Involvement David Skorton (Smithsonian)

Corporate Reinvention Chris Pappas (Trinseo)

#### 2017

Extraordinary Innovation John Keller (Shionogi)

#### 2016

Lifetime Achievement David Cote (Honeywell)

Extraordinary Innovation Jean Pierre Clamadieu (Solvay)

Industrial Investment Len Blavatnik (Access Industries)

Science Involvement Charles Bolden (NASA)

#### 2015

Lifetime Achievement Roy Vagelos (Regeneron, Merck)

Global Growth Erik Fyrwald (Univar)

Private Equity Distinction Scott Wolff (Am. Securities)

#### 2014

Lifetime Achievement Andrew Liveris (Dow Chemical)

#### 2014

Extraordinary Innovation Thomas Connelly (DuPont)

Private Equity Distinction Thomas Kichler (OEP/JPMorgan)

#### 2013

Lifetime Achievement Jon M. Huntsman Sr. (Huntsman)

Global Growth Fernando Musa (Braskem)

Private Equity Distinction Peter & David DeLeeuw (Lion Chemical)

#### 2012

Lifetime Achievement Peter McCausland (Airgas)

Global Growth Juan Pablo del Valle (Orbia)

Private Equity Distinction John Televantos (Arsenal Capital)

Merit Award Chris Hillenbrand Chemistry Olympian



# Award-winning Space Age STEM Programs

CME STEM Leadership Awards

CME NASA Sustainability Conference

CME NASA Symposium

CME Space Chemistry Roundtable

CME STEM Talks by Thought Leaders

CME STEM Festivals





8/23/2022 | Conference at UChicago | Registration: www.CME-STEM.org



PRES

I&EC 005: Fifth CME NASA Symposium - W190a

# Chemistry for Sustainable Human Space Exploration



8/22-23/2022 | Symposium Registration: www.CME-STEM.org

Chad Mirkin

Northwestern

James Green

NASA

Fraser Stoddart

Northwestern

Katherine Calvin

NASA



# 8/23 CME Lectures For the Annals of Civilization



Katherine Calvin NASA Chief Scientist, Sr. Climate Adv.



Sir Fraser Stoddard Northwestern University 2016 Nobel Prize in Chemistry



Chad Mirkin Northwestern University

Professor





James Green NASA Former Chief Scientist



Angela Wilson American Chemical Society

2022 President



Judy Giordan American Chemical Society

2023 President















# 2017-2021 Speakers

Partial list of distinguished thought leaders



Eric Betzig UC Berkeley 2014 Nobel Prize in Chemistry



Craig Venter Human Genome Project Visionary Industry Scientist



Frances Arnold Caltech 2018 Nobel Prize in Chemistry



Ben Feringa University of Groningen 2017 Nobel Prize in Chemistry



Janet Kavandi NASA Glenn Research Center Director (Former Astronaut)



Robert Langer MIT Koch Institute Professor, most cited engineer, 1400 patents















# 2022 CME PMSE Student & Mentor Awards

ACS Global Outstanding Student & in Polymer Science & Engineering



Vivian Feig Stanford University USA Graduate Student



Spyridonos Varlas University of Birmingham International Graduate Student

Mentors



Zhenang Bao Stanford University Mentor



Rachel O'Reilley University of Birmingham Mentor













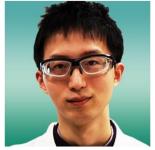


# 2021 CME PMSE Student & Mentor Awards

ACS Global Outstanding Student & in Polymer Science & Engineering



Austin Evans Northwestern University USA Graduate Student



Qi Zhang East China University S&T International Graduate Student

Mentors



William Ditchel Northwestern University Mentor



He Tian East China University S&T Mentor



Ben Feringa Nobel Laureate – U. Groningen Co-Mentor















# NASA: Forward to the Moon with Commercial Partners

2020.12.08 • Webinar 11 am - 12 pm ET



By 2024 NASA's Artemis program will land the first woman and the next man on the south pole of the Moon. NASA will be using innovative technologies to explore more of the lunar surface than ever before. Learn about opportunities in sustainable innovation for commercial partners to exploit the resources and propel a new dynamic in the Space Age as we write a new chapter in the history of civilization.

Speakers





James Green NASA Chief Scientist



Doug Terrier NASA

Chief Technologist



Cicely Shilligford Ro

STEM Young Leader



# Powering Exciting Student Programs



Since 2014 over 20,000 schoolchildren have experienced the magic of CME chemistry festivals



Since 2011 CME has helped over 2,000 STEM students develop leadership, business and networking skills.



# STEM Sponsors















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James and Marilyn Simons









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