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
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.
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  CME Partner  Event Co-Chairs

George Rodriguez
Argeni Director
ACS Fellow

Mark Eramo
S&P Global
Commodity Insights
Sr Vice President

Edward Monser
Air Products
Board Member

Jeff Dormo
Honeywell Fluorine
Products VP and
General Manager

CME Co-Chairs  CME Treasurer  CME Secretary

Ksenia Takhistova
CME General
Counsel
Tech & IP Attorney

Steve Barnett
Connell Foley
Partner, Health,
Safety & Environment

Shah Karim
SafeRock CEO
Columbia University
Innovation Fellow

Owen Jappen
American Chemistry
Council Director of
Chemical Products
and Technology
Established in 2012, the CME STEM Leadership Awards™ 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
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
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
Earth and Space Sustainable Living

Sustainability and Climate Perspectives
Creating the Future WET Space (Work, Exploration and Tourism)
Life Science Sustainable Innovation

Keynote

Paul Alivisatos
UChicago

Speakers

James Green
NASA

Jenny Obligacion
Merck

Tara Ruttle
Blue Origin

8/23/2022 | Conference at UChicago | Registration: www.CME-STEM.org
Chemistry for Sustainable Human Space Exploration
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

Symposium Remarks

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
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.

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.
Thank You for Supporting CME Space Age STEM Programs