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Why does food taste better when it is grilled or what	Feeling burdened by all that molecular weight?	How do ideas make it from the lab to the real world?
Why does food taste better when it is grilled or what	Feeling burdened by all that molecular weight?	How do ideas make it from the lab to the real world?
Why does food taste better when it is grilled or what molecular compounds make a great wine? Discover	Feeling burdened by all that molecular weight? Listen to experts expound on the amazing side of	How do ideas make it from the lab to the real world? Discover the ins and outs of the chemical industry

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ACS Scholars Endowment Founder Joe Vacca, retired Vice President of Chemistry, Merck & Co., meets with his 2018 ACS Scholar Johanna Masterson, now a grad student at Princeton University.

"Chemistry has been good to me...so I wanted to make a significant gift to provide that opportunity to others."

Clising the Science of Mentorship

Mentorship in Science

Date: Wednesday, January 27, 2021 @ 2-3pm ET Speakers: Renetta Garrison Tull, University of California, Davis and Sonia Zarate, Howard Hughes Medical Institute

Moderator: Jodi Wesemann, American Chemical Society



The impact of effective mentorship on research productivity, academic and

What You Will Learn:

- research self-efficacy, and career satisfaction • The attributes of effective mentorship that contribute to persistence and
- success

 How you can use evidence-based approaches to optimize formal and
- How you can use evidence-based approaches to optimize formal and informal mentorship

Co-produced with: ACS Education



Date: Thursday, January 28, 2021 @ 2-3:30pm ET Speakers: Katrina Knauer, BioCellection Inc. and Philippe Reutenauer, Léa Nature Moderator: Peter Boul, Aramco Americas

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What You Will Learn:

- Challenges in recycling of plastics and scaling new depolymerization technologies
- Chemical pathways for breaking down single-use plastics with an emphasis on polyethylene
- Synthesis of new polymers from chemically recycled monomers
 How food companies can modify their relationship towards plastics to face the public concerns linked to plastic packaging
- Mechanical recycling and its limitations and the emerging solutions for chemical recycling

Co-produced with: ACS Division of Polymer Chemistry

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HOW TO CREATE OPPORTUNITY IN THE STEM CLASSROOM

Date: Tuesday, February 2, 2021 @ 7-8pm ET

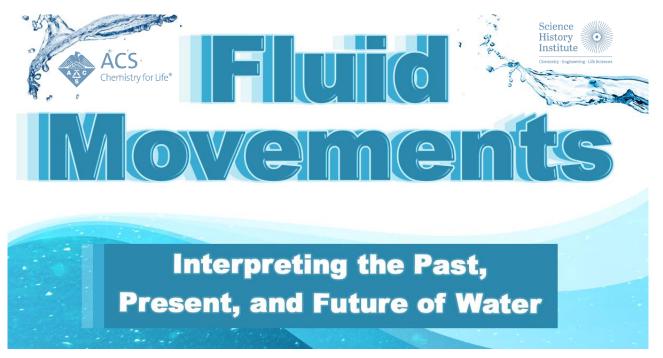
What You Will Learn

Speaker: Davis Tran, Wakefield High School / Jason Love, Wakefield High School / Nelson Fuamenya, Wakefield High School / Ana Munoz, Wakefield High School / Hina Aftab, Wakefield High School / Verlese Gaither, Wakefield High School Moderator: Pter Dorhout, Iowa State University



- Ideas, insights, and perspectives on cultivating an equitable, inclusive STEM classroom
- Practical takeaways to encourage equity and inclusivity in the STEM
- Overcoming challenges and barriers to achieving equity

Co-produced with: American Association of Chemistry Teachers, ACS Department of Diversity Programs, ACS Diversity, and the ACS Inclusion & Respect Advisory Board



THIS ACS WEBINAR WILL BEGIN SHORTLY...





Fluid Movements: Interpreting the Past, Present, and Future of Water



Presentation slides are available now! The edited recording will be made available as soon as possible. www.acs.org/acswebinars

This ACS Webinar is co-produced with Science History Institute and Chemical & Engineering News.

Fluid Movements: Interpreting the Past, Present, and Future of Water

January 21, 2021



Presenters:

Moderator:

Jesse Smith, Research Curator, Science History Institute

Jahnavi Phalkey, Founding Director, Science Gallery Bengaluru

Daryl Boudreaux, Joseph Priestley Society



Jesse Smith Research Curator, Science History Institute



Jahnavi Phalkey Founding Director, Science Gallery Bengaluru





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Audience Challenge Question-

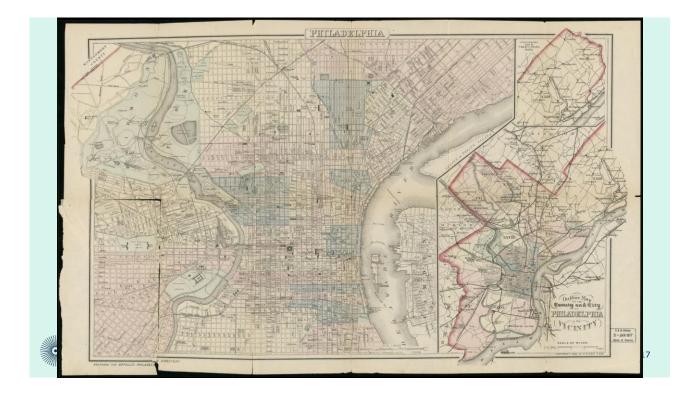
ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT

What best defines "the interpretation of water" mean to you?

- The scientific understanding of water
- The natural history of water
- The social history of water
- Contemporary challenges to water equity
- One oxygen and two hydrogen atoms that are connected by covalent bonds

* If your answer differs greatly from the choices above tell us in the chat!









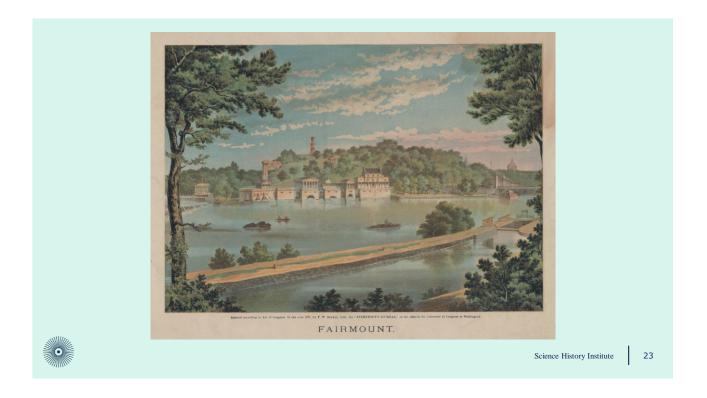


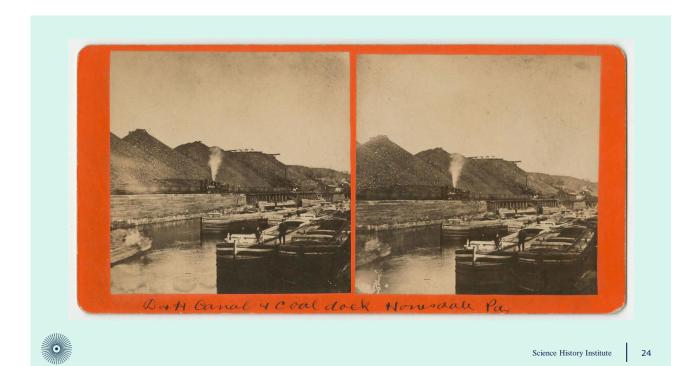


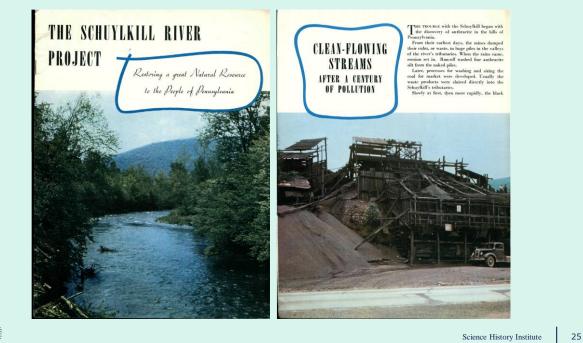
- Local (Philadelphia, 1800s)
- State (Pennsylvania, late 1800s to mid-1900s)
- Interstate River Basin (New York, New Jersey, Pennsylvania, and Delaware with the U.S. Army Corps of Engineers, mid-1900s)
- Federal (United States, 1970s)

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THE PROJECT THAT PAYS FOR ITSELF









26



0





10

The Comprehensive Plan

The 100-year renewable duration of the Delaware Basin Compact is reflected in its requirement that the Commission maintain a Comprehensive Plan with Sights trained on the needs in the distant future of the 22 million persons who live in the Basia and the area served by it. The Comprehensive Plan is shuts the Commission's blueprint for orderly deversion of the second second second second second second second renewable second second second second second second second for averting crisis-provoked – and usually innefquence – solutions.

The Commission compiled with this Compact mandate at one of its early meetings by adopting a First Phase Comprehensive Plan comprising 20 water control projects ranging in site from two quarter-million dollar flood control programs on South Jersey streams to the \$122 million Tocks Island Dam.

Shortly afterward, the Plan was enlarged by the addition of Cannonsville, a New York Caty reservoir under construction; and existing water supply and waste disposal installations, recreation areas and river stage and stream gauging stations; and, proding formulation of the Commission's own pollution abatement policies, the water quality regional zone classications produced more than 20 years earlier by Incodel.

As Commission policies evolve in all areas of its authority – also including recreation, fab and wildlife, water supply, flood loss reduction, hydroelextic power, low flow augmentation, and means of project financing – it is anticipated that they will be added to the Plan.

Major dam and reservoir projects for multi-purpose river control. Local watershed projects consisting of systems of small dams and reservoirs and land treatment measures.

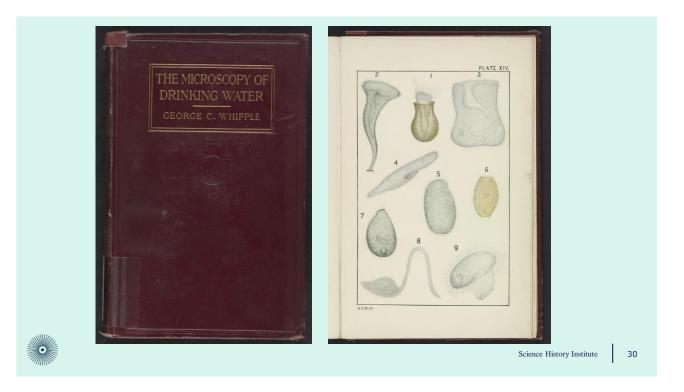


Science History Institute

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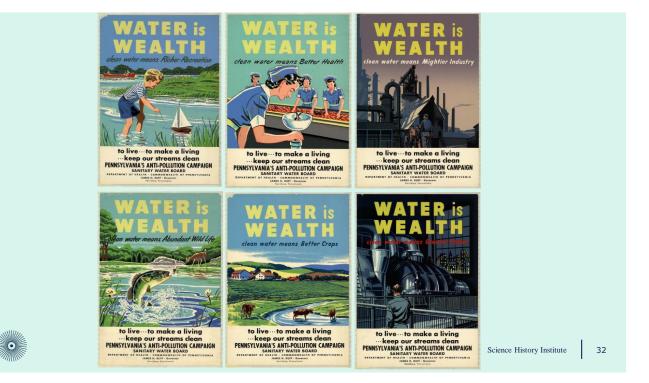


Image credits

- Slides 1, 3, and 5: Philadelphia Water Department
- Slides 2 and 9: U.S. Library of Congress
- Slides 7, 8, and 12: Library Company of Philadelphia
- Slides 10 and 11: Hagley Museum and Library
- Slide 13: Delaware River Basin Commission
- Slide 14: U.S. Environmental Protection Agency
- Slides 15 and 16: Science History Institute
- Slide 17: Pennsylvania State Archives

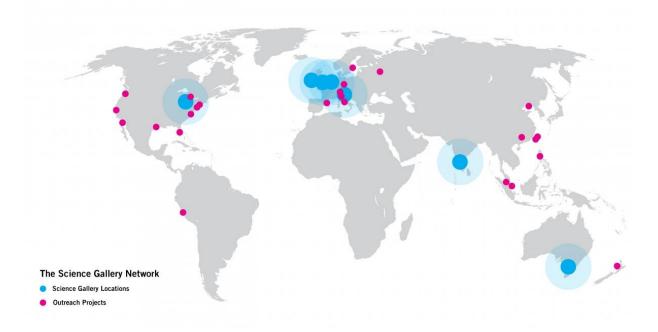


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Science Gallery Bengaluru



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THE SCIENCE GALLERY BENGALURU WAY

- Public Engagement • Community Initiatives
- Public Lab Complex
- Mentorship Initiative

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sq.r	n			

PUBLIC SPACES

1154 sq.m	1233 sq.m	1514 sq.m
PUBLIC LAB COMPLEX	PUBLIC ENGAGEMENT COMPLEX	COMMUNITY SPACES
Natural Sciences Lab Tissue Culture Room Microscoy Room Materials Lab Workshop New Media Lab Recording Room Food Lab Black Box Theatre Theory Lab Dark Room	Activity Hall Exhibition Hall I Exhibition Hall II Exhibition Hall III Reading Room Mediator Lounge Conference Room Open Studio The Nock	The Courtyard Courtyard Cafe Terrace Studio Terrace The Toolbox Portico Cafe

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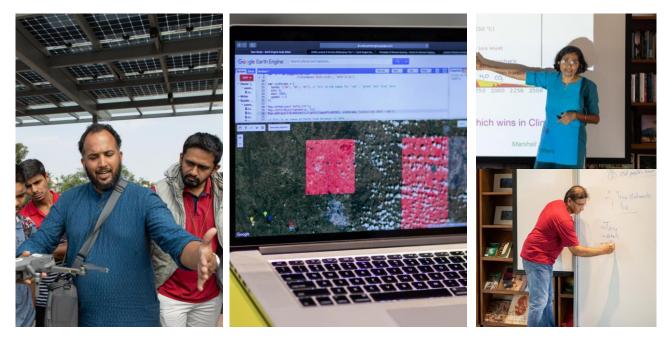
EXHIBITS		LECTURES AND TUTORIALS	WORKSHOPS AND MASTERCLASSES
15		15	16
Archaeabot	Diagenesis	FILM	EVENTS AND
Munsell Richter	Azure	SCREENINGS	PERFORMANCES
Rotating Table	People and Water		
Monsoon Experiment	Animas	7	7
Frankenshrimp	Sounds Tapper		
Terra Mars	Argus		
H20 TODAY			
Water is Life	Ice Painting		

Visitors engaged with the latest research and thinking on water, and examined its cultural significance, by interacting with scholars and artists from around the world.

We provoked them to begin a dialogue on water as an urgent concern for the city of Bengaluru, and global challenge of the Anthropocene.

Breaking Open: TERRA MARS

22



Shape of Water

Deep Dive

Water on the Red Planet

CONFLUENCE

15 lectures, 15 tutorials

fluid dynamists, hydro-ecologist, chemist, historian, writers, physicist, hydrologists, ecologist, biologist, artist - activist, geologist, policy-maker, water researcher



WHY DOES THE RIVER NEED TO FLOW FROM THE MOUNTAINS TO THE SEA?

Jagdish Krishnaswamy 15 December 2019

In this talk, hydro-ecologist Jagdish Krishnaswamy contested the idea that rivers flowing into the sea are a waste. Through examples, he illustrated how the flow of rivers helps maintain a rich biodiversity along its course which is essential for ecological balance. He further built a case for reducing our water consumption in key sectors such as agriculture and putting back more water into our rivers. He highlighted the need for the conservation of remaining free-flowing rivers to preserve their functions and services.

ABOUT THE HYDRO-ECOLOGIST /

Jagdish Krishnaswamy holds a Ph.D in Environmental studies, Duke University, North Carolina, USA. His research and teaching interests include ecohydrology, landscape ecology, conservation planning, ecosystem services and applications of bayesian approaches in understanding complex changes in the environment over space and time. He has coordinated the establishment of instrumented catchments in the Western Ghats and in the Himalayas to study the impacts of land-cover and climate variability on hydrological processes. We need to revisit the notion that river water flowing into the sea is a wasteful thing." - Jagadish Krishnaswamy, hydro-ecologist

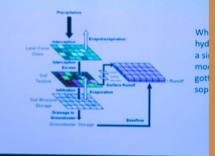


The young people in the audience asked very interesting and sharp questions on what science is, how we can do the right kind of science, and how we can build the right kind of skills. I'd like to congratulate the Science Gallery team on bringing science back into our everyday lives and our everyday conversations."

- Veena Srinivasan, water researcher



The goal of Indian water scien therefore to build predictive r



NEW FRONTIERS IN WATER SCIENCE

Veena Srinivasan 17 December 2019

In her lecture, water researcher Veena Srinivasan called for a new approach to science that is problem driven, interdisciplinary and grounded in real-world juestions. She presented three examples to illustrate why we must consider anthropologic changes in his new approach. She addressed the case of disappearing surface water in the Upper Arkavathy watershed near Bengaluru, the impact of droughts on Chennai and questioned whether tree planting is good or bad for streams.

ABOUT THE WATER RESEARCHER /

Veena Srinivasan is a Fellow at the Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore, where she leads the Water, Land and Society Programme. She also leads the Centre for Social and Environmental Innovation. Veena's research intersts include inter-sectoral water allocation, impacts of multiple stressors on water resources, ground and surface water linkages, and sustainable water management policy and practice.

Veena has won several awards for her work including the 2015 Jun Dooge Award for best paper in the journal Hydrology and Earth System Science from the European Geophysical Union, the 2012 Water Resources Research Editor's Choice Award from the American Geophysical Union She is also a recipient of the Teress Heinz Environmental Scholars Award.

WATER: AS WE DO NOT KNOW IT

Biman Bagchi 21 December 2019

In this talk, chemist Biman Bagen invited the audience to explore the unique properties of water which make it a weird substance. His talk explored how the unique molecular properties of water give rise to its structural and dynamic behaviour. This in tum translates into its important role in biological and chemical processes. He also brought forth recent advances in the study of water in complex systems.

ABOUT THE CHEMIST /

Biman Bagchi is a chemist and an Arnut Mody Professor at the Solid State and Structural Chemistry Unit of the Indian Institute of Science. He is known for his studies on statistical mechanics, particularly in the study of phase transition and nucleation, solvation dynamics, mode-coupling theory of electrolyte transport, and dynamics of biological macromolecules, among other fields. He is an elected fellow of the Indian National Science Academy, the Indian Academy of Sciences and The World Academy of Sciences. Besides several scientific articles, he has authored two books, *Molecular Relaxation in Liquids* and Water *in Biological and Chemical Processes: From Structure and Dynamics to Function.*



While writing the history of a river, it was really challenging to remain confined to archives and conventional historical methods. I had to integrate findings from various disciplines like natural sciences and biological sciences into my work... [I understood that] there has to be a democratic flow of ideas between various knowledge systems."

- Arupjyoti Saikia, historian



THE UNQUIET RIVER: BRAHMAPUTRA

Arupjyoti Saikia 28 December 2019

From landscapes to livelihoods, the river Brahmaputra has shaped the history of Assam. In this lecture, historian Arupjyoti Saikia brought together history, geology and hydrology to present a comprehensive understanding of this mighty river. He spoke about how the river was formed, what makes it unique, and why it is important to think about its future. His lecture was based on his book by the same name.

ABOUT THE HISTORIAN /

Arupyoti Salkia is currently a Professor in History at the Department of Humanilites and Social Sciences, IIT Guwahali, He has a Ph D from the University of Delhi and was a postdoctoral fellow at Yale University. His research interests are primarily focused on the Economic, environmental and political history of modern Assam. His publications include A Cantury of Protests: Peasant Politics in Assam since 1900, Routledge, Delhi, 2014, Forests and Ecological History of Assam, 1826-2000, Oxford University Press, Delhi, 2011, among others.

CULTURAL IMMERSION: UNDERSTANDING CULTURE THROUGH WATER

K.Y. Narayanaswamy 04 January 2020

ABOUT THE WRITER /

K.Y. Narayanaswamy is a Kannada poet, scholar, critic, and playwright. His many popular Kannada plays include Pampa Bharatha, Kalavar, Anabhigna Shakuntala, Chakraratha, Kiavara Nareyana, Huliseere, Mallige, Maya Beete Male Mantrika and Vinura Verna. He is credited with adapting Kuvempu's magnum opus Malegalalil Madumagalu into a 9-hour play. His works have won him three state Sahitya Academy awards. He also writes screenplays for films. His PhD thesis, Neera Deevige is considered a landmark in Kannada cultural studies of water. He is currently a Kannada professor at Maharani Cluster University, Bangalore.





ICE ON EARTH

ABOUT THE PHYSICIST /

R. Shankar is a theoretical physicist. After a Ph.D. in particle physics, his research interests turned to quantum condensed matter physics. Along with this, he worked on tsunami modelling for some time. After that, combining his love for the mountains and physics he began working on Himalayan glaciers.

CLIMATE CHANGE AND WATER RESOURCES

In this talk, hydrologist Pradeep Mujumdar looked at how climate change will most likely introduce an additional burden on the already stressed water systems in India. The talk presented the latest research on assessment of climate change impacts on regional hydrology, with emphasis on likely changes in water availability, agricultural water demands, floods and droughts and water quality. He also spoke about the challenges of assessing the impacts of climate change on water resources a different space-time scales.

ABOUT THE HYDROLOGIST /

radeep Mujumdar is currently serving as a trofessor in the Department of Civil Engineering as Chairman, Interdisciplinary Centre for Wate Research. He has earlier served as the Chairman to Department from November 2006 to Decembe 2010 and as KSIIDC Chair Professor from August 2012 to July 2015. He holds an Associate Faculty osition in the Center for Earth Sciences at IISc Bangalore. His area of specialization is Water assources with a focus on climate change impacts on hydrology. He has served as the Chairman of he Water Resources Management section of the International Association for Hydro-Environment Engineering and Research (IAHR), and as a revie or the Assessment Report 5 (AFS) of the IPCC.

We need to closely observe the increasing frequency of droughts and floods in our ecosystem, and understand how these extreme events influence water resources."

- Pradeep Mujumdar, hydrologist



Ecologists tend to think of remote areas like forests, and protected areas, when they talk about nature. The conversation about nature in the city tends to fall through the cracks, and we need to remedy this." - Harini Nagendra, ecologist



BENGALURU: CITY OF WATER

ABOUT THE ECOLOGIST /

ABOUT THE ECOLOGIST / Harini Nagendra is a Professor of Sustainability at Azim Premji University, where she anchors the Centre for Climate Change and Sustainability. Over the past 20 years, her research has examined people-nature relationships in forests and cities. For her interdisciplinary research and practice, she has received a number of awards including the 2009 Cozzarelli Prize from the US National Academy of Sciences, and the 2013 Ellnor Ostrom Senior Scholar award, among others. Her publications hiculde the books Nature in the City: Bengaluru in the Past, Present and Pturue (Oxtord University Press, 2016) and Cities and Canopies: The Tree Book of Indian Cities (Penguin, 2019) as well as recent publications in Nature, Nature Sustainability, and Science. She writes regularly on public science issues in newspapers, and blogs.

WITHOUT WATER: BETWEEN LIFE AND DEATH

In this lecture, biologist Shashi Thutupalli questioned our understanding of life and death, His lecture was based on his exhibit FrankenShrimp, where dehydrated brine shrimp remain dormart until they are placed in water. Once in water, they begin their life processes. He spoke about how cells in living beings need to be in a 'liquid state' to be active, highlighting the importance of water in life sustaining processes.

ABOUT THE BIOLOGIST /

Shashi Thutupalli is a Professor of Biology at the National Centre for Biological Sciences. His research program aims for a broad understand of the origins and organization of living systems Thutupalli's work is interdisciplinary combining experimental and theoretical techniques drawn from physics, engineering and biology.

My team and I are attempting to examine what happens to living organisms at the cellular level when they have to survive without water." - Shashi Thutupalli, biologist



His work is part of an ongoing investigation into the current state of nature, both as a crisis which traverses a political realm but also a cultural contestation of how 'nature' is thought of in the Anthropocene era."

- U. Nair, journalist

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· Sand Transportation Climate Charge Undulating 9



ABOUT THE ARTIST AND ACTIVIST/ Ravi Agarwal has an interdisciplinary practice as an artist, photographer, environmental campaigner, writer and curator. His work explores key contemporary questions of ecology, society, urban space and capital. Photography has been a prime medium for him for over four decades, which has expanded over time to include video, public art, installations, and recently also printmaking. His work has been shown widely including at the Yinchuan Biennial, Kochi Biennial, and the Sharajah Biennial, among other He co-curated the Yamuna-Elbe project, Indo German twin city public art and ecology project (2011), and Embrace our Rivers an Indo-European project in Chennal (2018).

WATER AND HUMAN SETTLEMENTS

Gajanana Sharm 25 January 2020

In this talk, Kannada writer Gajanana Sharma presented his perspective on the connection between water and human settlements. The first part of his talk looked into the history of how humans choose a place to live based on the presence of rivers. This meant tha civilizations were born on the banks of the river. In the second half of the talk, he questioned our current plan to move rivers as per our will and bring their water to our habitats instead. He illustrated this through the example of the proposed project to divert the water of river Sharavati to Bengaluru.

ABOUT THE WRITER /

Gajanana Sharma is a prominent Kannada writer. He has a master's in technology and has worked as Chief Engineer in the Karnataka Electricity Board. He is also an activist for children's theatre and has directed many dramas. He has written about the 100 years of the history of electricity in Karnataka and frequently writes dialogues for many films including the national award winning film "Dweepa".





THE DISAPPEARANCE OF THE SARASWATI

K.S. Valdiya 26 January 2020

In this talk, prominent geologist K S. Valdiya presented a talk on the mythical river Saraswati in Western India and took audiences on a lourney through time. By providing evidence of human activity along its course and images of underground water challenges, Valdiya argued that the river existed up until the 2000 years ago He ended his lecture by proposing that tectonic fault lines changed the course of the river and pushed the remaining part of it underground.

ABOUT THE GEOLOGIST /

K S Valdiya (1937–2020) was a distinguished scientist, academician, author, and an active environmentalist. He was internationally recognised for his path-breaking work in the fields of Geology and Environmental Science. In 2007, he was awarded the Padma Shri for his outstanding contribution to Science. His field of specialisation was Tectonics with special reference to active faults and Environmental Geology. He wrote over 110 research papers, authored 14 books, edited 9 books, and penned 40 articles in Hindi towards popularisation of science.

INDIA'S WATER PROBLEMS HAVE SIMPLE SOLUTIONS

Mihir Shah 29 January 2020

In this talk, policy-maker Mihri Shah argued that contrary to popular belief, the current water crisis in India is amenable to solutions that are both reasonably simple and practically implementable. The talk summarised the key elements of a new water strategy and demonstrated how its implementation can be carried out. Based on a radically new understanding of development, this water strategy is absolutely essential, given the emerging reality on the ground in this are of climate change, as also our growing understanding of water and its place in the development process.

ABOUT THE POLICY-MAKER /

As Member, Planning Commission, Government of India from 2009 to 2014, Mihir Shah was chiefly responsible for drafting the paradigm shift in the management of water resources enunciated in the 12th Five Year Plan. In 2017-18, he chaired a Task Group set up by the Government of Kamataka, that submitted a new Water Policy in December 2018. In November 2019, he was asked by the Government of India to chair the Committee to draft a new National Water Policy. We imagine that India's water problem is impossible to resolve. But India is a water abundant country, and the problem lies in the way that water is managed."

- Mihir Shah, policy-maker



cummulus clouds are very familiar to all of us. But my team and I are attempting to understand how they are formed in the skies, and how we can simulate them in a lab and on a computer."

- Roddam Narasimha, fluid dynamicist



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THE MYSTERY OF THE CUMULUS CLOUD

Roddam Narasimha 30 January 2020

In this talk, fluid-dynamicist Roddam Narasimha presented his work with Cumulus clouds. Cumulus clouds are those clouds which have a flat base but are large and fluffy. He began by sharing his fascination with clouds, which began at an early age. A firm believer in the trans-disciplinary nature of knowledge, he presented examples from classical Indian literature and art depicting clouds. In the second half of the lecture he gave the audience a flavour of the scientific rigour and the extent of details involved in his work in fluid dynamics. He proceeded to tell the audience about how clouds can be created artificially in a laboratory.

ABOUT THE SCIENTIST /

Roddam Narasimha (1933–2020) was the Chairman of the Engineering Mechanics Unit at the Jawaharlal Nehru Centre for Advanced Scientflic Research, and the Director of the National Institute of Advanced Studies, Bangalore. He was awarded the Padma Vibhushan, India's second-highest civilian award, in 2013. He was an aerospace scientist and fluid dynamicist who also held the Pratt & Whitney Chair in Science and Engineering at the University of Hyderabad.

TUTORIALS

The tutorial session was amazing because the students came from different backgrounds, but they had a good understanding of the topic that I spoke about. I would value this experience much more than just delivering a lecture in a classroom."

- Pradeep Mujumdar, hydrologist







THANK YOU

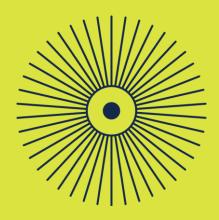
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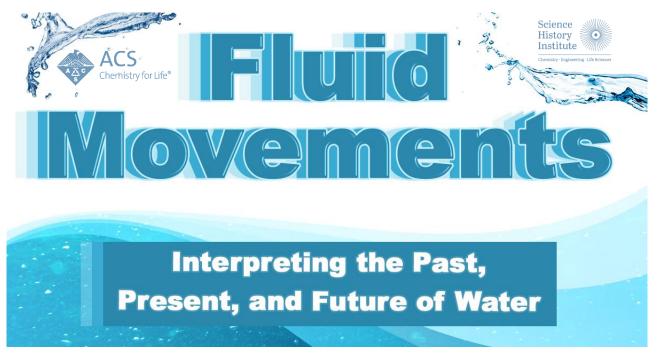
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See you February 11th!

The Power of Hydrogen: From First Element to Green Energy Catalyst

Dr. Vijay Kapur





ASK YOUR QUESTIONS AND MAKE YOUR COMMENTS IN THE QUESTIONS PANEL NOW! 65



Co-produced with: ACS Division of Polymer Chemistry

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Date: Wednesday, January 27, 2021 @ 2-3pm ET Speakers: Renetta Garrison Tull, University of California, Davis and Sonia Zárate,

Appearers: Reflecta Garrison Tuli, University of California, Howard Hughes Medical Institute Moderator: Jodi Wesemann, American Chemical Society

Register for Free!

- What You Will Learn: • The impact of effective mentorship on research productivity, academic and
- research self-efficacy, and career satisfaction • The attributes of effective mentorship that contribute to persistence and
- The attributes of effective mentorship that contribute to persis success
- How you can use evidence-based approaches to optimize formal and informal mentorship

Co-produced with: ACS Education

SOLVING the plastic waste PROBLEM Novel Chemical Pathway Upcycling & Chemical Recycling

Date: Thursday, January 28, 2021 @ 2-3:30pm ET Speakers: Katrina Knauer, BioCellection Inc. and Philippe Reutenauer, Léa Nature Moderator: Peter Boul, Aramco Americas

What You Will Learn:

- Challenges in recycling of plastics and scaling new depolymerization technologies
- Chemical pathways for breaking down single-use plastics with an emphasis on polyethylene
- Synthesis of new polymers from chemically recycled monomers
 How food companies can modify their relationship towards plastics to face
- the public concerns linked to plastic packaging

 Mechanical recycling and its limitations and the emerging solutions for chemical recycling

Co-produced with: ACS Division of Polymer Chemistry

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Chemistry for Life®

Date: Tuesday, February 2, 2021 @ 7-8pm ET

Speaker: Davis Tran, Wakefield High School / Jason Love, Wakefield High School / Nelson Fuamenya, Wakefield High School / Ana Munoz, Wakefield High School / Hina Aftab, Wakefield High School / Verlese Gather, Wakefield High School Moderator: Peter Dorhout, Iowa State University

What You Will Learn:

- Ideas, insights, and perspectives on cultivating an equitable, inclusive STEM classroom
- Practical takeaways to encourage equity and inclusivity in the STEM classroom
- Overcoming challenges and barriers to achieving equity

Co-produced with: American Association of Chemistry Teachers, ACS Department of Diversity Programs, ACS Diversity, and the ACS Inclusion & Respect Advisory Board

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