

THE CARIBBEAN ACADEMY OF
SCIENCES IN COLLABORATION
WITH UNIVERSITY OF GUYANA



22nd BIENNIAL *Virtual* CONFERENCE

**Theme: Science, Technology
and Innovation for Sustainable
Development in a Greener
Caribbean.**

Georgetown, Guyana

Programme Booklet

via Zoom Webinar & Meeting

August 9 – 14, 2021



The Caribbean Academy of Sciences (CAS) Guyana Chapter, which is housed in the University of Guyana, will be hosting the CAS 22nd Biennial Conference this year. Due to the COVID-19 pandemic, this year the conference for the first time will be virtually delivered.

ZOOM MEETING:

Technical Session 1 Cont'd

11:05 HRS – 12:35 HRS

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ROOM 6: Education, Humanities & Social Sciences

Gender Inclusiveness in the Natural Resources Sector in Guyana: A Focus on Education and Employment
Medeba Uzzi, Gyanpriya Maharaj, Christell Chesney and Ruth Daniel

A Framework for a University-based Enterprise: Case of the Prototyping and Engineering Training and Research Incubator Enterprise (PETRIE)
Cilla Pemberton, Renique Murray and Robert Birch

Question and Answer Session

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ZOOM WEBINAR:

Plenary Session 2

13:30 HRS – 14:10 HRS

Introduction of Plenary Speaker

Dr. Anna Perreira, University of Guyana

Plenary Address: "Achieving a Greener Caribbean – Filling the Gaps from an Environmental Perspective" (25 Minutes)

Dr. Devon Dublin, Hokkaido University of Education



DR. DEVON DUBLIN is a Guyanese born and Cuban trained Veterinary Doctor and Zootecnician. He holds a Masters in Marine Life Sciences from the Graduate School of Fisheries Sciences and a PhD in Environmental Science Development from the Graduate School of Earth Sciences, both from Hokkaido University of Education in Japan. He has been involved in the management of international development projects in Latin America and the Caribbean, Asia and Africa. He is involved in multidisciplinary research related to sustainability, One Health, Socioecological production landscapes and seascapes (SEPLS), and human-nature interaction. Dr. Dublin is a world traveler and an ardent scrabble enthusiast.

Question and Answer Session (10 Minutes)

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ZOOM WEBINAR:

Youth in Science Forum

"Career trajectories: On the shoulders of giants."

14:10 HRS – 16:10 HRS

MODERATOR



DR. MARVAHEEN SINGH-WILMOT is Lecturer in Inorganic Chemistry and Associate Dean for Student Experience in the Faculty of Science and Technology at the University of the West Indies, Mona, Jamaica. She leads an active research group in the areas of lanthanide chemistry and metal-organic framework materials. Singh-Wilmot has a passion for science and is committed to the promotion of science as a tool for development. She uses science to enlighten and delight young people, from preschoolers to post-graduates, and she serves in various capacities as an advocate for science in her country.

PANELISTS



DR. K RENEE HORTON is an advocate for diversity and inclusion in Science, Technology, Engineering and Mathematics (STEM), and works diligently in the community for STEM education and STEM outreach. Renee believes in changing the face of STEM. She is the founder of Unapologetically Being, Inc., a nonprofit for advocacy and mentoring in STEM and serves as a quality Engineer for NASA in New Orleans. Dr. Horton is the past president of the National Society of Black Physicists and the author of a children's series titled Dr. H Explores the Universe.



MS. FARNAZ BAKSH was a freshman at the University of Guyana in 2016 when she established the University of Guyana Robotics Club - Guyana's first makerspace, helping students innovate by freely expressing their ideas. She later led the national robotics team to rank in the top ten globally at the inaugural FIRST GLOBAL Challenge 2017.

For her selfless efforts, she received the 2019 Guyana's National Youth Award for advancing youth development in Science & Technology. Ms. Baksh graduated with a Bachelor in Computer Science and is pursuing a Masters of Robotics at the University of Tartu, researching how affective computing will help students overcome learning disabilities.



MS. LOIS OLIVER has worked in various areas in manufacturing and the science policy sector for the last 20 years. Her first role fresh out of UWI Cave Hill campus was with Banks (Barbados) Breweries Ltd. as a laboratory technician, where her love for manufacturing was born. She moved on from manufacturing and eventually to STEM policy and curriculum reformation and advocacy as the Assistant Director at the Caribbean Science Foundation. Manufacturing remains her first and true love, and she has returned to that field as manufacturing manager with oversight for quality assurance and R&D for a Barbadian food and cosmetics company.



MR. DAVE SARRAN is a lecturer within the Department of Computer Science at the University of Guyana and serves as the Assistant Dean within the Faculty of Natural Sciences. Mr. Sarran lectures in the areas of information systems design and deployment, information systems project management and information and communication technologies for development (ICD4D). His research interests encompass the transformative potential of ICTs, e-governance and ICT policy development, and sustainability of ICT strategies in developing countries. Mr. Sarran holds a BSc, MBA and MSc. from the University of Guyana, Australian Institute of Business and the University of Sheffield, respectively.



DR. CLAIRE NELSON is the architect of the successful Campaign to declare June as National Caribbean American Heritage Month in the U.S. A renaissance woman, she is a Development Engineer, Social Entrepreneur, and Futurist. The first Jamaican woman to earn a Doctorate degree in an engineering discipline and the only black in her graduating class, Dr. Nelson holds Industrial Engineering Degrees from the State University of New York at Buffalo, Purdue University, and a Doctorate in Engineering Management from George Washington University. Recognized as a White House Champion of Change, she is sought after as a speaker on issues pertaining to economic development, globalization, and issues concerning the Caribbean and its peoples.

