

## CAS' ABSTRACTS 2014

	<b>Saturday 22 November 2014</b>	
<b>Session &amp; Abstract #s</b>	<b>TOPIC</b>	<b>AUTHOR</b>
<b>Plenary 8:30-10:15 am</b>	<b>Plenary – The Colibri Ballroom Chair – Dr. Trevor Alleyne</b>	
	Tribology: From Macro to Nanoscale Aspects of Friction, Wear and Lubrication.	Professor Jean-Louis Mansot
	Utilizing Science and Technology for Development in Small Island Developing States	Professor Ramsay Saunders
	Young Scientist Award Recipient	
<b>Session 1A 10:30-12:10 pm</b>	<b>Health Research 1 – The Colibri Ballroom Chair: Dr Jorge Moreno</b>	
#3	The Antimicrobial Activity of the nC6H14 and CH3CH2OH Extract of the Fruit and Leaves of Solanium Melongena and Noringa Oleifera Respectively	Dr. Raymond Jagessar
#35	First Detection of Bacteriostatic Molecules Extracted from Bacterial Gill-Endosymbionts Colonizing the Marine Bivalve Codakia Orbicularis (Lucindae)	Dr. Oliver Gros
#43	The Efficacy and Toxicity of Muscadine Grape Skin Extract in Treatment of Men with Biochemical Recurrence	Dr. Tamaro Hudson
#8	Optimal Glucose Modelling for Diabetes	Dr. Severine Bernard
#18	Don't Forget to Take Your Tablet: An Android Application for Type 11 Diabetes Self-Management Support	Ms. S. Suultan
<b>Session 1B 10:30-12:10 pm</b>	<b>Applied Physics 1 – The Osprey Meeting Room Chair: Professor Brij Tewari</b>	
#30	Nanomechanical Characterization by Carbon Reinforced Polymer Composites	Dr. Laurence Romano
#24	In Situ Raman Investigation of Physical and Chemical Parameters Present in a Sliding Sphere/Place Contact Lubricated with Graphite Nanoparticles in Dispersion in 5P4r	Dr. Audrey Molza
#25	Investigation of the Nanotribologic Behaviour of Single Carbon Black Aggregates by In Situ Transmission Electron Microscopy	Professor Jean-Louis Mansot
#36	Importance of Environmental Scanning Elecctron Microscope (ESEM) and EDMS Analyses in Biological Samples from	Dr. Oliver Gros

	Various Sulphidic Habitats	
#39	Traditional Drum From Guadeloupe Ka: Study on Wood Quality and Vibrational Characterization	Dr. Thierry Cesaire
#1	Nanotechnology and Nanoparticles in Contemporary Sciences	Dr. Raymond Jagessar
<b>Session 2A 1:30-3:10 pm</b>	<b>Renewable Energy – The Colibri Ballroom Chair: Eng Hollis Charles</b>	
#9	The Use of Two Calcined Molluse Shells, Chip Chip (Donax Straitus) and Oyster (Crasso-Strea Rhizophorne) as Catalysts in Biodiesel Production	Mrs. Phaedra Jaggernaut
#14	A Study of Candidate Biomass Briquettes for Local Fuel Consumption	Ms. Ria Manbodh
#20	A Life Cycle Assessment (LCA) of the Production of Biofuels in Trinidad from Waste CO <sub>2</sub> with Microalgae	Ms. Shari K. Benn-Ojeer
#52	Toward the Assessment of Hydrokinetic Potential in the Maroni River	Prof. E. Grandchamp
<b>Session 2B 1:30-3:10 pm</b>	<b>Education – The Osprey Meeting Room Chair: Dr. Reynold Stone</b>	
#69	Comparison of Education Policy in Caribbean Islands	Prof Emeritus Jean-Andre Marti
#33	Open Access Publishing and the Quality of Scientific Publications in Caribbean Higher Education	Sherede Ali/Dr Mark Wuddivira
#42	Developing Creativity Skills in Tertiary Level Students Using a Social Network and Creativity Theories	Mrs. Diana Ragbir-Shripat
#49	Computational Methods for Modelling and Reasoning in Culturally-Aware Intelligent Learning Environments	Ms. Phaedra Mohammed
#54	Strengthening Capacity for Food Science and Technology Teaching, Learning and Research to Add Value to Indigenous Foods for Food Security in Africa and the Caribbean (FST in AC)	Dr. Marsha Singh
#57	National Diploma in Local Employability: A French Paradox at Work in Guadeloupe	Dr. Elisabeth Odacre
<b>Session 3A 3:20-4:20 pm</b>	<b>Applied Physics 2 – The Colibri Ballroom Chair: Professor Ramsay Saunders</b>	
	Quantitative Investigation of Nanostructure and Nanoscale	

#27	Friction Properties of Single Partially Fluorinated Carbon Nanofibres	Dr. Philippe Bilas
#70	Fluorination as a way to improve the friction properties of nanocarbons	Dr. Philippe Thomas
#40	Friction Properties of MoS <sub>2</sub> Tribofilms: Surface or Volume Effect?	Mr. Georges Minatchy
<b>Session 3B 3:20-4:00 pm</b>	<b>Health Research 2 – The Osprey Meeting Room Chair: Dr. Diane Ignacio</b>	
#50	Promoting the One Health Concept Across the Caribbean	Professor Christopher Oura
#47	Developing Models to Inform Disease Control Program Decision Making: A Subclinical Maxtitis Control Example	Dr. Lisa Benjamin
	<b>Sunday 23 November 2014</b>	
<b>Session 1C 8:30-10:10 am</b>	<b>Eco-Research – The Colibri Ballroom Chair: Prof Emeritus Jean-Andre Marti</b>	
#6	Are Stabilimeta in the Webs of <i>Argiape Argentata</i> (Araneae:Arancidae) an Inducible Defensive Device	Dr. Jo-Anne Sewlal
#37	Utilising Participatory Geographic Information Systems (PGIS) to Create an Interface Between Expert and Local Knowledge for Sustainable rural Habitats	Ms. T. Melville
#34	Description of New Filamentous Tropical Marine Cyanobacteria (Oscillatoriaceae) in Prokaryotic Mat Colonizing Guadeloupe Mangrove Swamps	Dr. Oliver Gros
#16	Hydrological and Anthropogenic Influences in the Water Quality of Two River Channels Assessed with Electromagnetic Induction Technique	Ms. Melissa Atwell
#11	Alternative Investigation of Swash Sediment Transport: An Improved Understanding of Caribbean Beaches	Mr. Anton N. Ali
<b>Session 1D 8:30-10:10 am</b>	<b>Basic Science Research – The Osprey Meeting Room Chair: Prof Alain Pietrus</b>	
#55	Investigate and Compare the Results to Understand Science	Dr. Sophie Fecil
#22	A Preliminary Investigation into the Quantity and Isolation of Starch and Protein from the Seeds of the Ackee ( <i>Blighia sapida</i> ) Fruit	Mr. O'Neil Falloon
#41	A Molecular Assessment of the Genetic Model for Spathe Color Inheritance in Anthurium	Mr. David Gopaulchan
#44	Anatomy and Ecophysiology of Two Black Mangroves Species	Dr. Maguy Dulormne

#61	Physico-Chemical and Microbiological Studies Applied to the Recalcitrant Organochlorine Insectides	Professor Sarra Gaspard
#59	Troubleshooting the Flow Problem of Poorly Flowable Aceclofenac: Drug Powder by Using Spherical Crystallization Technique and Making Suitable for Direct Compression	Dr. Madan M. Gupta
<b>Session 2C 10:25-11:45 pm</b>	<b>Agriculture – The Colibri Ballroom Chair: Professor Winston Mellowes</b>	
#56	Application of the Mathematical Theory of Viability to the Study of FWI Agrosystems Sustainability	Dr. Harry Ozier-LaFontaine
#51	Pesticide Residues in Vegetables from Retail Markets in Trinidad	Ms. Mary Johnson
#62	Knowledge, Perception and Acceptance of Coconut Water as a Functional Food Among Consumers in Trinidad	Ms. Ronella Rajkumar
#67	Design and Fabrication of a Banana Fibre Machine	Mr. Robert Birch
#65	Correlation Analysis of Rainfall and Surface Air Temperature to Assess the Possible Long-term Implications of Global Warming for Agriculture in Trinidad and Tobago	Dr. Reynold Stone
<b>Session 2D 10:25-11:45 pm</b>	<b>Solar Energy &amp; Eco Research – The Osprey Meeting Room Chair: Dr. Andrea Sealy</b>	
#15	A Novel Geographic Framing for Solar Energy: The Geographic Insolation Potential and Trinidad and Tobago's Social Housing Context	Mr. Kiron Neale
#46	Selecting an Appropriate Model for Determining Solar Potential in Trinidad and Tobago Using Geoinformatics	Ms. Elizabeth Gay
#32	Response of Tropical Forest Soil to Water Repellency as Influenced by Conversion in Planation Forest and Solution pH Treatment	Sherede Ali/Mark Wuddivira
#38	Development and Characterization of Single and Consortium Microbial Cultures for Bioremediation of Petroleum Contaminates Soil	Mr. Sheldon Ramoutar
#53	Removal of Toxic Metal Ions from Water and Wastewater Using Mango Nutshell (Magnifers Indica) and its Relevance to Environmental Issues	Professor Brij Tewari
<b>Session 3C 1:15-2:35 pm</b>	<b>Special Presentations – The Colibri Ballroom Chair: Dr. Gail Baccus-Taylor</b>	
#64	A Simple Statistical Procedure for Monitoring and Assessing Changes in Trinidad and Tobago's Murder Rate	Dr. Reynold Stone

#10	Economic Assessment of Community-Based Tourism in St. Lucia: A Case Study of Fish Fry Events (FFE)	Mr. Titus Mathurin
#4	Validation of Caribbean Dance as a Marketable Item: The Economics of Cultural Ecology Around the Public Education System Trinidad and Tobago	Mr. Jorge Luis Morejón
#68	Positioning the Trinidad & Tobago Fashion Industry Within Global Value Chains: A Case Study	Ms. Cilla Benjamin