

STAR 2019 CONFERENCE PROVISIONAL PROGRAMME

Time Slots	Presenters	Title
Tuesday, 19 November 2019		
[Note to Secretariat – appoint time keepers!]		
Session 01 OPENING [Facilitator – R. Taga]		
08:00-09:00	-----	Registration
08:50-09:00	[STAR participants find seats]	Prepare for Official Opening Session
09:00-09:30	Chief Guest – Josefa Caniogo, PSLMR	Conference Opening by Permanent Secretary for Lands and Mineral Resources
09:30-10:00	-----	----- Morning Coffee -----
Session 02 WATER RESOURCES & MANAGEMENT [Facilitator – R. Ravuiwasa]		
10:00-10:20	Cyril B. Rachman , FNU	Rural Water Infrastructure on the mainland and outer islands in Fiji
10:20-10:40	Peter Sinclair , SPC	Evidence-based approach to water supply development in volcanic islands – case study from Tanna, Vanuatu
10:40-11:00	Francis John Chottu , FNU	Namara District Fiji, Off-Grid Water Supply System Design
11:00-11:20	Nicholas Metherall , ANU-USP	Quantifying the effects of dry season aggregate extraction on downstream turbidity and sediment transport: a
	Malakai Tadulala , Keleni Raqisia, Tariq	water quality and hydrology assessment of Dawasamu River
11:20-11:40	Rahiman, MRD	Lineaments structures and groundwater characteristics between Sigatoka Valley and Eastern Tailevu Regions
11:40-12:00	Erickson Sammy , Vanuatu	Increasing Water Access Resilience for rural communities in the Pacific islands through solar powered systems
12:00 –	Mick McWalter, Circum-Pacific Council and Oil Search Ltd, Port Moresby will show a film about the emergency response to the 26th February 2018	– 2 case studies in Vanuatu
12:30-13:30	earthquake in PNG called <i>The Last Mile</i> directed by Marco Venditti [spillover into lunchtime]	
	-----	----- Lunch -----
Session 03 GIS & REMOTE SENSING TECHNIQUES & APPLICATIONS [Facilitator – R. Smith]		
13:30-13:50	Wolf Forstreuter , PICGISRS	History of GIS & Remote Sensing support at the grass root level for Pacific Island Countries
	Evie Packett , Makereta Veitata , ANU-	
13:50-14:10	USP	Utilising Google Earth Engine to track mangrove recovery post cyclone Winston revised
	Asakaia Tabuabisataki , Lands	
14:10-14:30	Department	Importance of Global Navigations Satellite Systems (GNSS) to Positioning Infrastructure – Fiji
14:30-14:50	Swetha Thammadi , Sateesh Pisini, FNU	Developing GIS-based Soil Erosion Map using RUSLE model for Naitasiri Province, Fiji
14:50-15:10	Paul Seaton , Fugro	Unlocking Data Insights in the South Pacific to Mitigate Impact of Climate Change and Sea Level Rise
15:10-15:30	Mark Sinclair , Fugro	Large Scale Airborne Lidar Bathymetric Mapping Projects for Coastal Zone Management
15:30-16:00	-----	----- Afternoon Coffee -----
16:00-16:20	Faatasi Malologa , Arthur Webb , Tuvalu	Tuvalu Report on the benefits of Lidar data and the Tuvalu TCAP Project – TBC
16:20-18:00	RESERVED FOR WORKING GROUPS – [Work in Progress]	
	WORKING GROUPS: PSIDS LADS Project – RH; EDUCATION WORKING GROUP – Sara Beavis; Pacific Resilience professional development [Melinda Mathers/Elenoa Ratumaitavuki]; SB Islander Cyril B Rachman – Water Resources; Ocean Geosciences [CHAIR TO BE Announced for latter 2]	

Wednesday, 20 November 2019

08:40-09:00	Cyril Bernard Rachman , FNU
09:00-09:20	Evie Packett , ANU-USP
09:20-09:40	Aminisitai Loco , SPC
09:40-10:00	Lloyd Singura , Tsukasa Ohba, Akita University-UPNG
10:00-10:30	-----
10:30-10:50	Michael Nesbitt , Kalo Exploration
10:50-11:10	Jack A. Smith , Vatukoula Gold Mine
11:10-11:30	Stephen Mann , Lion One
11:30-11:50	Yi Huang , Vatukoula Gold Mine
11:50-12:10	Stephen Mann , Lion One
12:10-12:30	Neechal Kumar , Eroni Bakabaka, MRD
12:30-13:30	-----
13:30-13:50	Keleni Raqisia , MRD
	Paul A. Taylor , Australian
13:50-14:10	Volcanological Investigations (AVI)
14:10-14:30	Noa Tuiloma , MRD
14:30-15:30	<i>RESERVED FOR POSTER SESSION – Poster Paper Authors, 5 minutes each present on poster and point out location of poster in the room – then participants go to Posters of Interest and engage with authors – spillover into afternoon tea time. See list of Poster Papers on Page 4</i>
15:30-16:00	-----
16:00-16:20	Sereana Vatucicila , Lion One
	Mohammed Azad, Nilesh Chand ,
16:20-16:40	MRD
16:40-17:00	Oliver Lilford , Sara Beavis, ANU-USP
	Vani Koroisamanunu, Sovaia
17:00-17:20	Lewanavanua , MRD

Session 05 FIELD APPLICATIONS OF TECHNOLOGY/SCIENTIFIC TECHNIQUES [Facilitator – R. Taga]

Investigating the littoral transport of sediment along the Nasese Coastline, Suva, Fiji Islands
 Lessons from the Qfield: novel field data collection methodologies using QFIELD for QGIS
 Testing innovative technologies for atoll groundwater mapping
 Unearthing tephra deposit, and petrological trace of subvolcanic magma dynamics of two active intra-caldera volcanoes north of Rabaul volcanic complex – Papua New Guinea
 ----- Morning Coffee -----

Session 06 MINERAL RESOURCES, MINING, FIELD TECHNIQUES [Facilitator – R. Mohammed]

Cirianiu: The Epithermal Gold Project that Unlocked a District
 Socio-economic sustainability in mining through innovation – the implementation of shrinkage stoping mining methods at Vatukoula Gold Mine, Fiji
 The Tuvatu Gold Project, Viti Levu, Fiji
 Tailings retreatment practice at Vatukoula Gold Mine Limited
 Using Stream Clay BLEB Sampling to Find New Orebodies – Lion One's Tuvatu Project as a Case Study
 River Gravel Extraction Monitoring and Compliance
 ----- Lunch -----

Session 07 DATA AND INFORMATION COLLECTION, MANAGEMENT & APPLICATION [Facilitator – A. Loco]

Data Management System for Groundwater
 Volcanic Hazard Maps: their development and use in Volcanic Environments of the South West Pacific
 Landowners engagement in mining and socio-economic benefit of mining

----- Afternoon Coffee -----

Session 08 ENVIRONMENTAL CONSIDERATIONS IN DEVELOPMENT PROJECTS [Facilitator – E. Sammy]

The Importance of Developing an Environmental Baseline Study – Tuvatu Gold Project
 Water Quality Monitoring for Foreshore Development – Nawi Island Limited
 Confronting Complexity in Issues of Environmental Degradation and Management – The case of Gold Rock Quarry, Fiji
 Water Sampling and Monitoring at AMEX Resources Limited

Thursday, 21 November 2019

08:40-09:00	<u>Andreas Antoniou</u> , SPC
09:00-09:20	<u>Gary M. McMurtry</u> , University of Hawaii
09:20-09:40	<u>Arishma R. Ram</u> , University of Auckland
09:40-10:00	<u>Robert Smith</u> , GEM, SPC
10:00-10:30	-----
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10:30-10:50	<u>Nasi Racaca</u> , City of Rockingham
10:50-11:10	<u>Sushil Kumar</u> , USP
11:10-11:30	<u>Paul A. Taylor</u> , AVI
11:30-11:50	<u>Gary M. McMurtry</u> , University of Hawaii
11:50-12:10	<u>Sobha Devi Kumar</u> , Water Authority of Fiji (WAF)
12:10-12:30	<u>Rigietia Ravuiwasa</u> , Sakaraia Malodali, Mohammed Zaved, MRD
12:30-13:30	-----
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13:30-13:50	<u>Cécile Dupouy</u> , CRESICA (New Caledonia)
13:50-14:10	<u>Sereseini D. Vakawaletabua</u> , WAF
14:10-14:30	<u>Kunal Singh</u> , USP
14:30-14:50	<u>Inia Corerega</u> , USP-ANU
14:50-15:10	} <u>Dr Gregory Stone</u> , DeepGreen
15:10-15:30	
15:30-16:00	-----
16:00-18:00	

Session 09 GEOLOGY, GEOPHYSICS, FIELD TECHNIQUES [Facilitator – J. Lavisi]

The value of geophysics in understanding the variability of groundwater systems in low carbonate islands
 Continuous Monitoring of Volcanic Unrest and Large Earthquakes: Field-Portable Helium Isotope Detectors as New Geochemical Tools
 Engineering geological and geomorphological investigation of slope failures along roads in Viti Levu, Fiji
 Geophysical and Geological Investigations for Infrastructure Development, Fanga'Uta Lagoon, Tonga
 ----- Morning Coffee -----

Session 10 NATURAL HAZARDS, RISK ASSESSMENT TECHNIQUES [Facilitator – D. Leneuoti]

Coastal Hazard Risk Management and Adaptation Plan for City of Rockingham, Western Australia
 Natural hazards, radio wave detection and their effect on ocean-mesosphere-lower thermosphere region in the South Pacific Region
 Recent volcanic activity in the Kingdom of Tonga
 Locally-generated Tsunami Events Preserved in the Rock and Deposit Record at Ka Lae (South Point) and Other Sites in the Hawaiian Islands
 Micro-organisms in potable water supply
 Earthquake and Landslide Assessment: Mount Washington, Nabukelevu District, Kadavu
 ----- Lunch -----

Session 11 SCIENTIFIC RESEARCH UNDERWAY IN THE REGION [Facilitator – R. Howorth]

The "Along the River" Program: a Research and Innovation Project Focusing on the Integrated Management of Water, its Uses and its Governance in New Caledonia
 Suva rivers monitoring in support of the Assimilative Study of the Laucala Bay, Suva
 Responses of a high altitude wetland to late-Holocene environmental changes in Taveuni, Fiji
 Using GIS to Identify Suva Schools exposed to Tsunami Risk and their Distance to Safe Zones
 Ocean Metals and the Future of the Pacific Islands
 ----- Afternoon Coffee -----

RESERVED FOR BUSINESS MEETING/AGM 2019

GOVT-STAR 2019 COCKTAIL FUNCTION

Friday, 22 November 2019 GEOLOGICAL EXCURSION – NUKULAU/MAKULUVA; DRONE WORKSHOP, MY SUVA PARK

LIST OF POSTER PAPERS SUBMITTED TO STAR 2019

#	AUTHOR(S)	AFFILIATION(S)	TITLE OF POSTER PAPER
1	<u>Nilufar Sabirova</u>	Department of Geography and Ecology, Samarkand State University	The importance of aerospace methods in the study of landscapes transformation: In the case of adjacent areas of the Aydar-Arnasay-Arnasay Lakes System
2	Michel Leodoro [uncertain]	Vanuatu Geology and Mines Unit (Government)	GeoPark Concept for Vanuatu: Proposed Gaua National GeoPark
3	Ilaitia Erene, <u>Champathi Gunathilake</u> and Indra R. Singh	Fiji National University	Identification of growth & yield of Cassava (<i>Manihot esculenta</i>) and Dalo (<i>Colocasia esculenta</i>) under integrated farming
4	<u>Indra R. Singh</u> , Nisha Zureen, Champathi Gunathilake & Saula Koro	Fiji National University	Physico-chemical properties of some selected Soils of the Sigatoka region, Viti Levu, Fiji
5	Timoci Koliyavu [uncertain]	University of the South Pacific – Pacific Centre for Environment and Sustainable Development	Snapshots of CDOM and Chlorophyll dynamics in Laucala Bay, Fiji Islands
6	<u>Anesh Kumar</u> , Aminisital Loco, Peter Sinclair, Andreas Antoniou	Geoscience, Energy and Maritime Division, Pacific Community	Assessment of water resources in Onotoa atoll – Republic of Kiribati
7	<u>Nicholas Metherall</u> ¹⁺²⁺³ , Sara Beavis ² , Timoci Koliyavu ²	¹ Australian National University, ² University of the South Pacific, ³ Additional research affiliations: Water Authority Fiji, Mineral Resources Department, District Office Ba	Monitoring spatial and temporal variability in geochemistry, water quality and hydrological inputs into alkalinity and pH levels along the Ba River