



# USP

THE UNIVERSITY OF THE SOUTH PACIFIC



**Further Information on ICRECC2010:**

For further information on the conference:

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Or send an email to the Conference Convener,  
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Or visit the website:

<http://www.usp.ac.fj/icrecc2010>

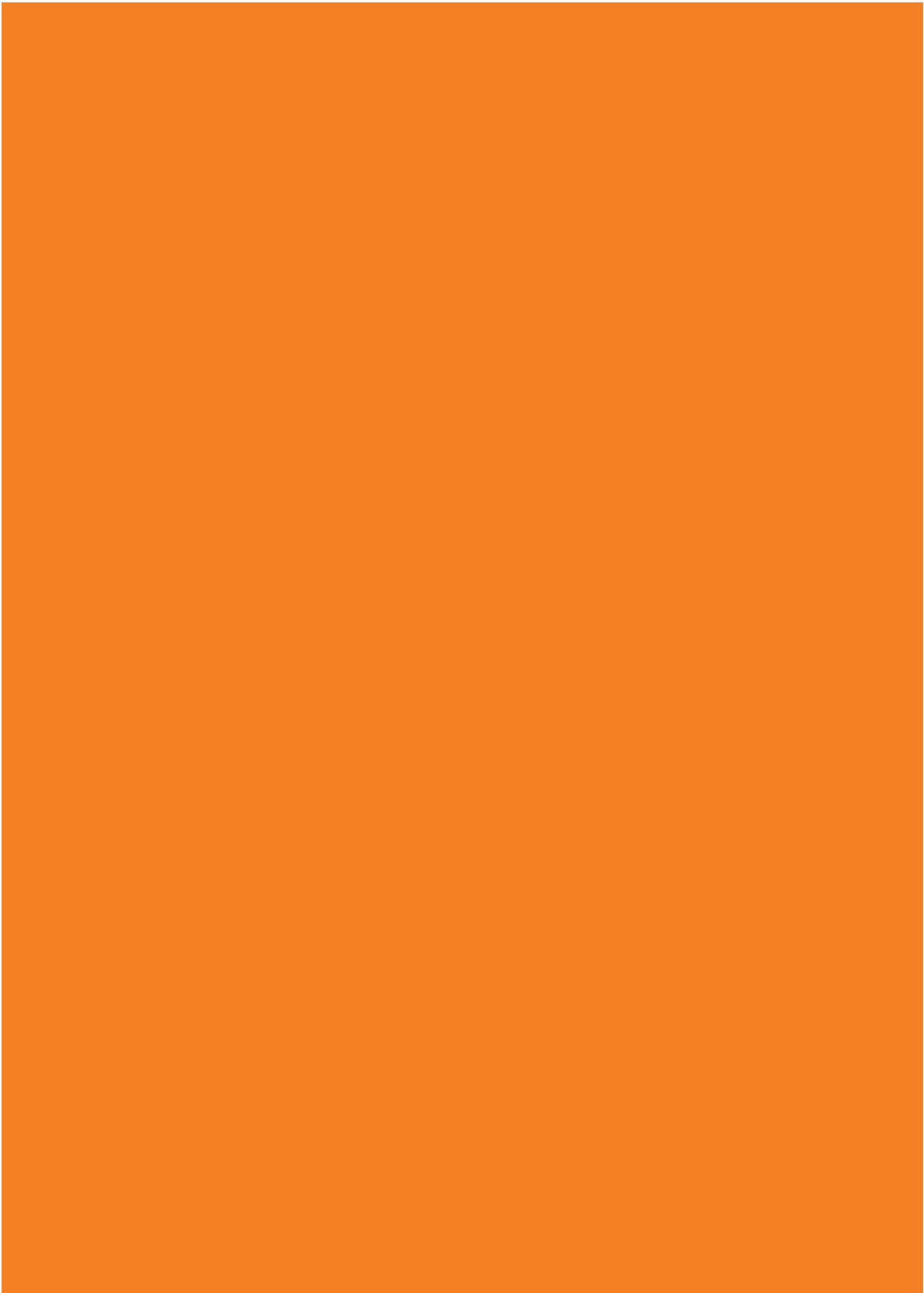


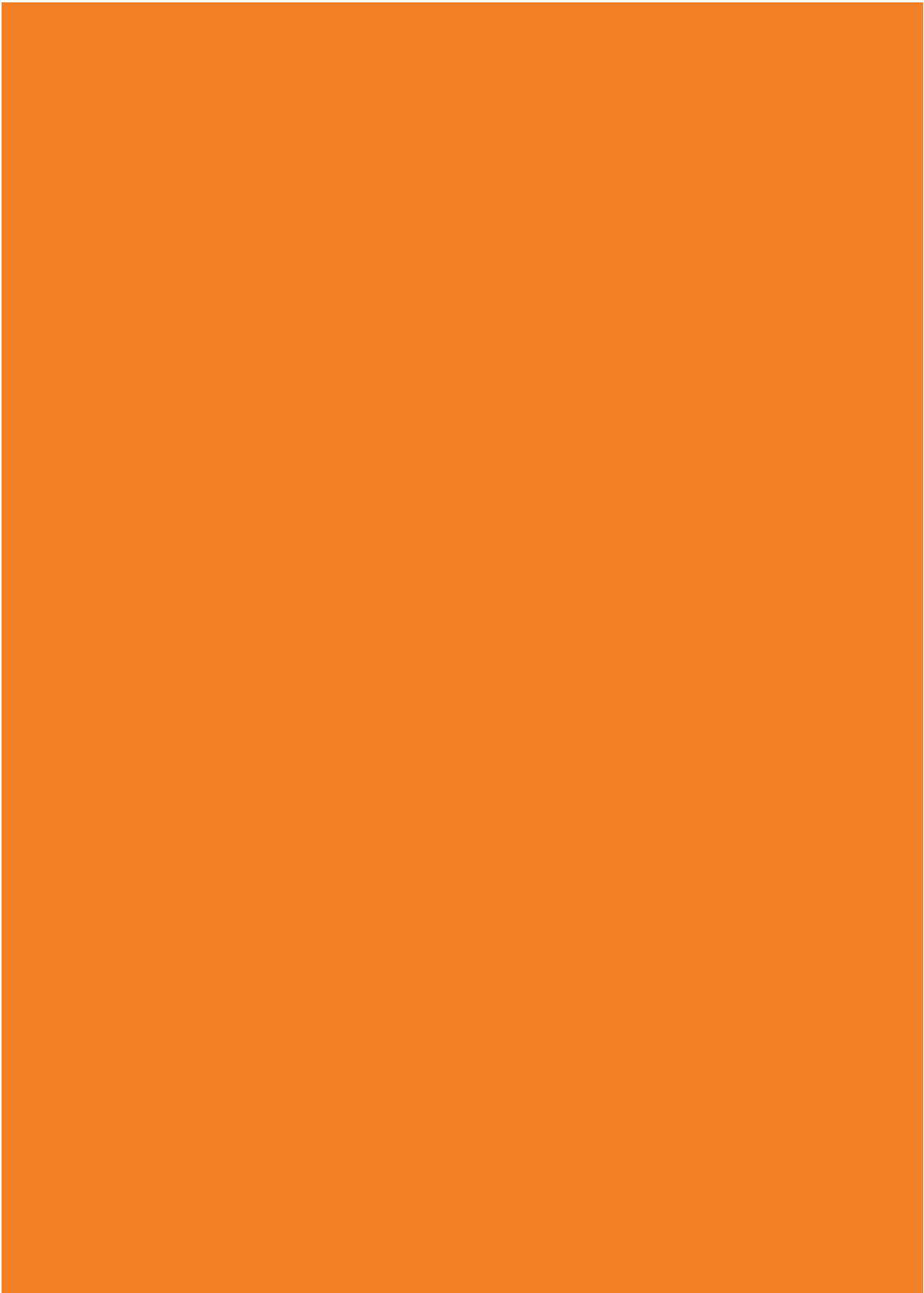


# INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY AND CLIMATE CHANGE: FOCUS ON THE PACIFIC - (ICRECC2010) 6th to 8th December 2010 - Suva, FIJI ISLANDS

Photo courtesy of SOPAC









DATE	TIME	SESSIONS	CHAIR [FACILITATOR]
	8.30 – 9.00 am	<b>REGISTRATION</b>	<b>USP</b>
	9.00 – 10.15 am	<b>OPENING SESSION</b> <ul style="list-style-type: none"> <li>❖ Welcome</li> <li>❖ Opening address (Professor Rajesh Chandra, Vice Chancellor of USP)</li> <li>❖ Keynote Address (Dr. Tony Weir, USP PACE-SD)</li> <li>❖ Official Photograph</li> </ul>	Dr. Anirudh Singh
10.15 – 10.30 am		<b>MORNING TEA</b>	
	10:30 am – 11.00 am	<b>Session 1 RENEWABLE ENERGY AND CLIMATE CHANGE ASSESSMENT</b> <b>1.1 Invited speaker: Lalit Kumar</b> Remote Sensing and Geographic Information Systems for Resource Assessment – Scope and Capabilities for the Pacific	Peceli Nakavulevu (Department of Energy)
	11.00 – 11.15 am	1.2 Wind characteristics and energy potential of Wainiyaku, Taveuni, Fiji: <b>Ajal Kumar and K Nair</b>	
	11.15 – 11.30 am	1.3 Consequences of Climate Change on Agriculture and Farmers adaptation: <b>Paras Nath</b>	
	11.30 – 11.45 am	1.4 The potential of using coconut oil-based microemulsions as fuel for diesel engines: <b>Jagjit Khurma, A. Singh and P. Singh</b>	
	11.45 – 12.00 noon	1.5 Software design of Solar-Wind Hybrid Systems: <b>Shivneel Prasad</b> and A. Kumar	
	12.00 – 12.15 pm	1.6 Investigation of ethanol producing potential of local varieties of cassava in Fiji: <b>Pritika, A. Singh and J. Khurma</b>	
	12.15 – 12.30 pm	1.7 Assessing the contribution of renewable technologies to energy security: the electricity sector of Fiji: <b>Matthew Dornan</b>	
12.30– 1.30 pm		<b>LUNCH</b>	

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	1.30 – 2.00 pm	<b>Session 2 RENEWABLE ENERGY TECHNOLOGIES AND APPLICATIONS</b> <b>2.1 Invited speaker: Surendra Prasad</b> A Review of the Technologies for Electricity Generation from Solar and Wind Energy Resources	Tony Weir USP
	2.00 – 2.15 pm	2.2 A Grid –connected PV system for the USF lower Campus: Design and Economics : <b>Atul Raturi</b>	
	2.15– 2.30 pm	2.3 Fabrication and Characterization of Bougainvillea spectabilis based Dye Sensitized Solar Cell: <b>Monishka Narayan</b> and A. Raturi	
	2.30 – 2.45 pm	2.4 Properties of traditional fuelwood and industrial biomass residues in Fiji : <b>Naveendra Reddy</b> and <b>A. Singh</b>	
	2.45 – 3.00 pm	2.5 Geothermal Energy : Electricity for the Future: <b>Tim Daniel</b>	
<b>3.00pm – 3.20 pm</b>		<b>AFTERNOON TEA</b>	
<b>Monday, 6<sup>th</sup> December DAY 1 – ICRECC 2010</b>	3.20 – 3.50 pm	<b>Session 3 RENEWABLE ENERGY ECONOMICS</b> <b>3.1 Invited speaker: David Smith and Jessica Gardner</b> Greening the economy – shifting the growth paradigm to be more inclusive and sustainable	Surendra Prasad (FNU)
	3.50– 4.05pm	3.2 Energy Policies and Renewable Energy: An Overview and Options for Pacific Island Economies: <b>Gyneshwar Rao</b>	
	4.05– 4.20 pm	3.3 Do Fossil Fuel Prices Hamper Exports from Small, Energy-Dependent Countries of the Pacific? <b>Hong Chen</b> and <b>Sunil Kumar</b>	
	4.20 – 4.35 pm	3.4 Managing Energy Resources to Strengthen the Pacific Economic Base: <b>Scott Hook</b>	
	4.35 – 4.50 pm	3.5 Ethanol production in Fiji: <b>Gyneshwar Rao</b>	
<b>6.00 – 8.00 pm</b>		<b>COCKTAIL at USP GYM</b>	





DATE	TIME	SESSIONS	CHAIR [FACILITATOR]
Tuesday, 7 <sup>th</sup> December DAY 2 - ICRECC 2010	8:30 – 9:00 am	<b>Session 4 POLICY STRATEGY AND FRAMEWORK</b> <b>4.1 Invited speaker: Solomon Fifita</b> The Framework for Action on Energy Security in the Pacific	Sunil Kumar USP
	9.00 – 9.15 am	4.2 How can We Achieve 'Good' Governance for Climate Change Adaptation? Lessons Learnt of Relevance to the Pacific: <b>Julian Prior</b>	
	9.15 – 9.30 am	4.3 An overview of the renewable energy political and institutional frameworks in the ACP countries: <b>Dinesh Surroop</b> et al.	
	9.30 – 9.45 am	4.4 Caribbean renewable energy: Policies, Competition and Regulation: <b>O. S. Iyare and L. L. Moseley</b>	
	9.45 – 10.00 am	4.5 The Tonga energy roadmap: <b>Daphne Barbotte</b>	
	10.00 – 10.15 am	4.6 Renewable energy in the PICs – resources, policies and issues: <b>Anirudh Singh</b>	
<b>10.15am -10.35am</b>		<b>MORNING TEA</b>	

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	10.35– 11.05 am	<p><b>Session 5 TECHNOLOGY TRANSFER AND CAPACITY BUILDING</b></p> <p><b>5.1 Invited speaker: Julia Gottwald</b></p> <p>The role of universities in technology transfer in the renewable energy sector in Bolivia - findings from a labour market survey and experiences from a rural electrification pilot project</p>	Solomone Fifita SPC
	11.05 – 11.20 am	<p>5.2 Outcomes and Impacts of the European Union’s Renewable Energy and Energy Efficiency Programme (REP-5)Programme</p> <p><b>Katerina Syngellakis</b></p>	
	11.20 – 11.35 am	<p>5.3 Biofuel developments in the Fiji Islands :</p> <p><b>Pranil Singh</b></p>	
	11.35 – 11.50 am	<p>5.4 ‘Waste’ to ‘Energy’ – process and possibilities for Fiji: <b>Shalendra Prasad, R. Chandra and A. Singh</b></p>	
	11.50 - 12.05 pm	<p>5.5 SPC-CATD Small coconut oil processing project: <b>Frank Vukikomoala</b></p>	
	12.05 – 12.15 pm	<p>5.6 Application of ARTI based Compact Biogas Plants for mitigating Climate Change in Fiji <b>Dellena Gloria –Alagcan</b></p>	
	12.15 – 12.30 pm	<p>5.7 Status of Wind Power in Fiji : <b>Denise Chand and A. Kumar</b></p>	
<b>12.30 – 1.30 pm</b>		<b>LUNCH</b>	







DATE	TIME	SESSIONS	CHAIR [FACILITATOR]
	1.30 – 2.00 pm	<b>Session 6 ENVIRONMENT SUSTAINABILITY AND SOCIO ECONOMICS</b> <b>6.1 Invited speaker : Bernard O'Callaghan</b> Clean doesn't always mean green – understanding the impacts of energy options	Walter Leal HAW Humburg
	2.00 – 2.15 pm	6.2 The socio-economic effects of environmental change in Fiji and the Pacific: <b>Joseph Camillo</b>	
	2.15 – 2.30 pm	6.3 Marshall Islands streetlights retrofitting project: <b>William Reiher</b>	
	2.30 – 2.45 pm	6.4 Palau Energy Efficiency subsidy programme: <b>Ms Clarinda Ziegler</b>	
	2.45 – 3.00 pm	6.5 Gender and energy in the Pacific: <b>Daphne Barbotte</b>	
<b>3.00 – 3.20 pm</b>		<b>AFTERNOON TEA</b>	
	3.20 – 3.50 pm	<b>Session 7 RENEWABLE ENERGY IN DEVELOPING COUNTRIES</b> <b>7.1 Invited speaker: Thomas Rogers</b> an L. L. Moseley: The potential of PV installations in SIDS – an example in the island of Barbados	Bernard O'Callaghan IUCN
	3.50 – 4.05 pm	7.2 Emerging Technologies for the Efficient Generation of Heat and Electricity from Biomass Waste in developing countries: <b>Surendra B. Prasad</b>	
	4.05 – 4.20 pm	7.3 Rural electrification needs in the Pacific Islands – a case study of a village in Kadavu Islands in Fiji: <b>Prasanna Waichal</b> and E. Kama	
	4.20 – 4.35 pm	7.4 Effectiveness of Solar Drying on Local Fruits: <b>Rupantri Raju</b> and W. Aalbersberg	
	4.35 – 4.50 pm	7.5 Energy Generation from Municipal Solid Waste in Small Island Developing States: <b>Romeela Mohee</b> and <b>D. Surroop</b>	

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DATE	TIME	SESSIONS	CHAIR [FACILITATOR]
	4.50 – 5.10 pm	7.6 Small is Beautiful: An analysis of the NGO Alofa Tuvalu's 10 year renewable energy project in Tuvalu: <b>Sarah Hemstock</b>	
<b>7.00 – 9.00 pm</b>		<b>CONFERENCE DINNER at USP GYM</b>	

<b>Wednesday, 8<sup>th</sup> December DAY 3 - ICRECC 2010</b>	8:30 – 9:00 am	<b>Session 8a RENEWABLE ENERGY AND CLIMATE CHANGE MITIGATION</b> <b>8a.1 Invited speaker: Walter Leal</b> The Role of Renewable Energy In Addressing The Challenge of Climate Change in the Pacific Region	Lalit Kumar UNE
	9.00 - 9.15 am	8a.2 Fiji climate change adaptation project - lessons learnt: <b>Leone Limalevu</b>	
	9.15 - 9.30 am	8a.3Climate change and the habitability of tropical Pacific islands river deltas: <b>Shalini Lata</b> and <b>P.Nunn</b>	
	9.30 – 9.45 am	8a.4 Analysis of community-based climate change adaptation initiatives from Africa, Europe, Asia and America: What lessons can Pacific Island States learn from them? : <b>Julia Gottwald</b>	
	9.45 – 10.00 am	8a.5 Climate Change Adaptation for Tourism in the Pacific: Analysing the Policy Environment in Fiji: <b>Min Jiang</b> et al	
	10.00 – 10.15 am	8a.6 PNG's emissions path under the PNG Development Strategic Plan 2010-2030: <b>Elsah Mumu</b> et al	

<b>10.15 – 10.35 am</b>	<b>MORNING TEA</b>
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DATE	TIME	SESSIONS	CHAIR [FACILITATOR]
<b>Wednesday, 8<sup>th</sup> December DAY 3 - ICRECC 2010</b>	10.35 – 11.05 am	<b>Session 8b RENEWABLE ENERGY AND CLIMATE CHANGE MITIGATION CONT'D</b> <b>8b.1 Invited speaker: Julian Prior</b> You Don't know What You've Got 'Til It's Gone – Protecting and Building Social Capital for Community Adaptation to Climate Change <b>Julian Prior</b>	
	11.05 -11.35 am	<b>8b.2 Invited speaker: Atul Raturi and Katerina Syngellakis</b> Renewable Energy Development and Carbon Trading: Options for the PICs	
	11.35 -11.50 am	8b.3 Carbon financing opportunities: <b>Matias Goldmann</b>	
	11.50 -12.05 pm	8b.4 The Human Rights Dimension of Climate Change: An Indigenous Face: <b>Unaisi Narawa-Daurewa</b>	
	12.05 -12.20 pm	8b.5 New Renewable Energy Sources, Green Energy Development and Environment/Climate Change: Implications to Pacific Island countries: <b>Manoranjan Mohanty</b>	
	12.20 -12.35 pm	8b.6 Is ecotourism climate-friendly? Revisiting the Namuamua inland tour in Namosi, 1990-7 <b>Filipo Tokalau</b>	

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DATE	TIME	SESSIONS	CHAIR [FACILITATOR]
<b>12.35 – 1.35 pm</b>		<b>LUNCH</b>	
	1.35 – 2.05 pm	<b>Session 9 MISCELLANEOUS</b> 9.1 Pacific Island Countries and Fuel Price Volatility: Smoothing the path to greater energy security: <b>Uzumma Erume</b>	Anirudh Singh  USP
	2.05 – 2.20 pm	9.2 Pacific Island Countries' Petroleum Supply and benefits of Bulk Procurement Initiatives: <b>Shakil Kumar</b>	
	2.20 – 2.35 pm	9.3 Effect of groundwater salinization and other climate related indices on sugarcane productivity : <b>Niko Kunavue</b>	
	2.35 – 2.50 pm	9.4 Power Generation from Bagasse in Mauritius: <b>Romeela Mohee</b> and <b>Dinesh Surroop</b>	
	2.50 – 3.05 pm	9.5 The Three (3) Pillars of Sustainable Development implies Continuity – are decision makers successful in giving practical legal effect?: <b>Nilesh Bilimoria</b>	
	3.05 – 3.20 pm	9.6 A brief review of the long-term effect of climate change on the upper atmosphere and ionosphere – Space Weather Contribution: <b>Sushil Kumar</b>	
<b>3.20 – 3.35 pm</b>		<b>AFTERNOON TEA</b>	
	3.50 pm	<b>Closing remarks</b>	Dr. Anirudh Singh
	4.00 pm	<b>Vote of thanks and close of conference</b>	

