Solar 20	12	Conference	Programme
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Page 1: 5th-6th December

Majedul

Islam

Mehdi

Jafarian

Pegah

Haseli

José

Zapata

Xue Dong

Noel

CSP1

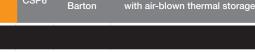
CSP2

CSP3

CSP4

CSP5

Registration 08:00:00 Welcome & Steve Blume, 08:45:00 President, Australian Solar Council Opening John Grimes, Bringing research and 09:00:00 Keynote 1 CEO, Australian Solar Council industry together Plenary 1 Chair: **Steve Blume** Scott Frier, 09:30:00 Keynote 2 'Yes we can' Abengoa Solar First one out of the foxhole gets shot: 10:00:00 Keynote 3 Peter Fries, Journalist tales from the trenches of Solar One 10:25:00 MORNING BREAK Min Gu, Swinburne University of Stephen Key-White, 10:50:00 note 4 note 5 CSIRO Technoogy Localised back surface field Experimental results of a Alistair PV1 Jie Cui formation via different dielectric SHC1 PVT-water module design for 11:20:00 Sproul developing countries patterning approaches Optimization of light trapping in Performance of a linear Fresnel polycrystalline silicon thin film solar Tanzeen 11:40:00 PV2 Jing Rao SHC2 rooftop mounted concentrating cells using double-nanoparticle-Sultana Concentrating-Photovoltaics 1 Solar Heating & solar collector layerstructure Solar Power Chair: David Cooling 1 Chair: Chair: Scott Ken Guthrie A solar cooling demonstration with a Jones A systematic study of thermal Frier novel geometry ICPC solar collector: fourteen years of experimental and Wenkai William annealing effects of P3HT:SiNC 12:00:00 PV3 SHC3 Cao Duff hybrid solar cells simulation results Technical feasibility of a façade Optical modeling of anodic 12:20:00 PV4 Yang Li aluminum oxide for light-trapping SHC4 Dan Wu integrated solar cooling system for in silicon solar cells commercial buildings Influence of emitter doping and Urban solar district: a case study



SWINBURNE BUR * NE *



Three dimensional simulation of

a parabolic trough concentrator

thermal collector

Modelling the influence of high

intensity radiation flux on particle

performance in a hybrid solar

chemical looping combustion

reactor

Thermal analysis of a 40MWe

dish-based CSP plant using

measured solar data

Experimental validation of a

dynamic model for a mono-tube

cavity receiver

A high flux solar simulator system

for investigating the influence of

concentrated solar radiation on

turbulent reacting flows

Passive solar power generation

LUNCH

of geometric optimization of solar

façades for a residential building

in Milan

Gabriele

Lobaccaro

SHC5

14:00 -16:00

12:40:00

13:00:00

5th Dec

6-Dec

Registration

Chaowei

Xue

PV5

thickness on the performance of

n-type evaporated poly-Si thin-film

solar cells on glass

Solar 2012 Conference Programme

Page 2: 6th December

14:00:00	Plenary 2 Chair: Alistair Sproul	Key- note 6 Susta	Ken Guthrie inable Energy Transformation	ap - Plotti	ar Heating and - Plotting a course wable Heat			rage 2. oth December			
14:30:00	oprour		Poster oral presentati Poster discussion								
15:40:00		AFTERNOON BREAK									
16:00:00		PV6 Daniel Chung	Camera imaging for antireflection coating process control		SHC6	Rajat Das	Investigations on solar energy driven liquid desiccant cooling systems for tropical climates	Solar Resources Chair: Ian Grant	RES1	lan Muirhead	One minute solar: observation, access and applications
16:20:00	Photovoltaics 2	PV7 Lorenzo Rosa	Optical response simulation and measurement of silver plasmonic nano-particles in hexagonal patterns for high-efficiency solar harvesting	Solar Heating and Cooling 2 Chair: Brendan Bourke	SHC7	Lu Aye	Evaluation of a solar refrigeration system for field storage of blueberries in Biobío region		RES2	Barbara Ridley	Altering typical meteorological years to cater for climate change
16:40:00	Chair: Min Gu	PV8 Yuanxun Liao	Fabrication of γ-Al ₂ O ₃ /Si/γ-Al ₂ O ₃ quantum well structures for energy selective contact of hot carrier solar cell		SHC8	Alistair Sproul	A novel thermal circuit analysis of solar thermal collectors		RES3	John Boland	Forecasting solar radiation on short time scales using a coupled autoregressive and dynamical (CARDS) model
17:00:00		PV9 Santosh Shrestha	Structural properties of germanium nanocrystals deposited with RF sputtering		SH9	John Pye	Heat loss estimation for dish cavity receivers by experimental and computational methods		RES4	Philip Woods- Bradley	Cloud tracking with optical flow for short-term solar forecasting
17:20:00					Austra	lian Solar Enei	rgy Society AGM				
18:45:00	Pre-dinner drinks										
19:15:00	Pre-dinner drinks	Sponsor Presentation									
19:30:00 20:30:00 21:15:00	Dinner	MC: Peter Fries, Journalist Annual Awards						SW4N1			
21:30:00		Wal Read Awards						BUR * NE <u>*</u>	SWINBURN UNIVERSITY TECHNOLOG	E OF GY	AUSTRALIAN SOLAR COUNCIL THE NATIONAL VOICE OF SOLAR

Solar 2012 Conference Programme

Page 3: 7th December

-	'-Dec										
09:15:00		Welcome	John Grimes, CEO, Australian Solar Council								
09:30:00	Plenary 3 Chair: Larry Bellamy	Keynote 7	David Waldren, Grocon Group	The next benchn bເ	nark - net uildings	zero energy					
10:00:00		Keynote 8	Keith Lovegrove, IT Power	Latest developments and trends in Europe's solar thermal technology							
10:30:00		Keynote 9	Harald Drueck, University of Stuttgart								
10:55:00						MORNING	BREAK				
11:20:00		David Key- Jones, note University 10 of Melbourne			Key- note 11	Stefan Preuss, Sustain- ability Victoria	Head in the Clouds, Feet on the Ground – From International Energy Agency Collaboration to Upgrading Victoria's Office Stock		Key- note 12	Monica Oliphant, Consultant	Community owned power
11:50:00		PV10 Faisal Ghani	Extraction of solar cell modeling parameters using the Lambert W-function		BE1	Matt Francis	Strategies for improving the thermal performance and comfort levels of a kindergarten in Nepal		POL1	Trevor Berrill	Renewable energy policy in Queensland - a bumpy ride
12:10:00	Photovoltaics 3 Chair: Pete Gorton	PV11 Lisa Havas	Analysis of a residential rooftop photovoltaic trial in Alice Springs	Built Environment Chair: David Waldren	BE2	Mahalath Halperin	Retrofitting for sustainability - does it work?	Policy Chair: David Ferrari	POL2	Lynette Molyneaux	Where is Australian power headed in 2035?
12:30:00		PV12 Daniel Macdonald	The emergence of n-type silicon for solar cell manufacture		BE3	Martin Anda	Carbon neutral settlements: the role of solar energy		POL3	lgor Skryabin	Business and financial structures for solar power stations
12:50:00	The virtual power station – PV13 John Ward achieving dispatchable generation from small scale solar		BE4	Annabel Sawyer	A family-sized greenhouse for a remote mountain region of Nepal		POL4	Craig Froome	Modelling the effect of climatic conditions on solar yield and the implications for solar forecasting		
13:10:00						LUNC	CH				





Solar 2012 Conference Programme Page 4: 7th December

13:40:00							Poster disc	cussion			
14:00:00		GRI1	Stefan Tait	Development of commercial PV in Australia - critical factors apart from economics	Built Environment and Solar Developments Chair: Stefan Preuss	BESD1	Dimitris Lazos	The value of commercial BIPV sys- tems in the urban environment	Industry Session Chair: Olivia Coldrey (Investment Director, Australian Solar Institute)	Rob Bartrop (Business Development Manager, First Solar)	Greenough River Solar Farm Lessons and Opportunities
14:20:00		ds GRI3 Mark	Francis Clark	The OzEA 50% renewables modelling - results and reflections		BESD2	Stephen Berry	Transformational role of sustainable niche developments		Andrew Dickson (Operations Manager, Clean- Sight and former Manager, Solar Dawn project)	Where to from here with Big Solar?
14:40:00	Grids Chair: Stephen White			Planning for the impact of distributed solar energy on the grid		BESD3	Wil Gardner	Development of a solar thermal supercritical steam generator			
15:00:00		GRI4	Worawit Tayati	PV generation hosting capacity of remote area power supply systems		BESD4	Vaman Kuber	Designing solar photovoltaic power plant for optimum performance		Wayne Smith (Director, Clean Economy Services)	Solar Policy Opportunities and Challenges in 2013
15:20:00		GRI5	Keith Sue	Distributed energy storage in the Australian National Electricity Market: assessing potential benefits and a framework for integration		BESD5	Tshewang Lhendup	Experimental study of coolth charging of an inter-seasonal underground thermal storage system		Blair Pester (Regional Manager, Winaico)	Best Practice and Quality in PV
15:40:00	AFTERNOON BREAK										
16:00:00	Closing session	CEO,	n Grimes, Australian Ir Council	Close and Farewell							
16:30:00	End of Conference										



