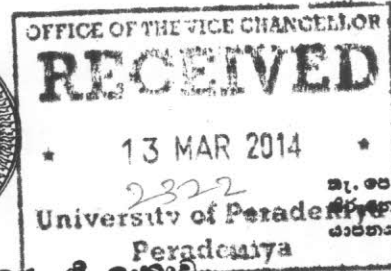


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දුරකථන
தொலைபேசி / பக்ஸ்
Telephone / Fax
E-mail:



கலந்து விவாதிக்கப்படும் தலைப்பு
யாழ்ப்பாண பல்கலைக்கழகம், இலங்கை
UNIVERSITY OF JAFFNA, SRI LANKA

அ.ப. எண் 57,
திருநெல்வேலி.
யாழ்ப்பாணம்.

த. பெ. எண் 57,
திருநெல்வேலி,
யாழ்ப்பாணம்.

P. O. Box 57,
Thirunelvely,
JAFFNA

Sampath / E-NB →
circulate.

Office of the Vice-Chancellor
University of Jaffna
2014.03.05

The Vice Chancellor
University of Peradeniya

Dear Prof. Atula Senaratne

Workshop on Thin Film Solar Cells

I am pleased to inform you that we are organizing a three day Workshop on Thin Film Solar Cells which is to be held on April 16-18, 2014 in our university. First two days will be focused on series of lectures by five eminent scientists / experts in the relevant field of thin film solar cells from USA and the third day workshop on laboratory training by our local resource persons. Scientists and Engineers from universities / research institutes / other state and private sector organizations, and also Science / Engineering graduates who have an interest in participating in this activity and hoping to be active players of a vibrant photovoltaic R & D community in the country, are invited to this three day workshop.

Prof. Siva Sivananthan, Distinguished Professor of Physics at University of Illinois at Chicago, USA and Founder and Chairman of the Board of Directors at Sivananthan Laboratories, Inc is sponsoring the expenses related to international air fare, hotel accommodation and subsistence of the five resource persons from USA, while HETC, Ministry of Higher Education will cover local expenses other than travel and accommodation of the participants from state sector organizations (universities, research institutes) and research students. For all other applicants, the registration fee is Rs. 2,500/=.

Kindly make arrangement to circulate the flyer and the registration form among the staff and research students.

Thank you

Yours Sincerely

N. Anura

Vice-Chancellor / University of Jaffna

VICE CHANCELLOR
University of Jaffna
Jaffna, Sri Lanka

✓ All Deans
Circulate pls

[Signature]
Vice - Chancellor
University of Peradeniya
Peradeniya
Sri Lanka

Workshop on Thin Film Solar Cells

Their Technology & Business Potential for Sri Lanka



University of Jaffna, Sri Lanka

in collaboration with

University of Illinois at Chicago, USA

UIC

UNIVERSITY
OF ILLINOIS
AT CHICAGO

April 16-18, 2014

Registration form

Name with Initials:		
Office address:		
E-mail:	Tel: Office	Mobile:
Present occupation		
Educational Qualifications		
BSc (University, Year)		
MSc (University, Year)		
MPhil (University, Year)		
PhD (University, Year)		
Other		
Meal preference	Vegetarian <input type="checkbox"/> Non-vegetarian <input type="checkbox"/>	

Area of Research Interest	
Any previous experience / exposure to semiconductors, solar cells, solar energy materials, solar panels, etc. Please give brief details.	
Have you attended	1 st PV workshop at Institute of Fundamental Studies in 2012? YES/NO 2 nd PV workshop at University of Ruhuna in 2013? YES/NO
If you are attending a lab session on 18.04.2014 from 08.30 am to 14.30 pm, please tick your choices.	Cadmium based solar cells : Characterisation <input type="checkbox"/> Polymer based Solar cells : Fabrication <input type="checkbox"/> Characterisation <input type="checkbox"/> Dye sensitised Solar cells : Fabrication <input type="checkbox"/> Characterisation <input type="checkbox"/>

Signature:-.....

Date:-.....

The registration fee for applicants from state sector organizations (universities, research institutes) and research students (either proof of registration for a degree or recommendation from the supervisor is necessary), will be covered by a grant from the HETC. **For all other applicants, the registration fee is Rs. 2,500/=.** Lunch and tea during the workshop sessions and a book of handouts will be provided to all participants free of charge. The registration fee doesn't include accommodation or transport to Jaffna.

Please send your completed application by e-mail (physics@jfn.ac.lk) and a signed copy by fax (021 2225924) or post same to: *Co-ordinator, Workshop on Solar Cells, Department of Physics, University of Jaffna, Thirunelveli, Jaffna, JA 40 000* on or before 28.03.2014 (Friday).

Sponsored by Sivananthan Laboratories Inc., USA & HETC, Ministry of Higher Education, SL

**Sivananthan
Laboratories**

**HETC**

Workshop on Thin Film Solar Cells

Their Technology & Business Potential for Sri Lanka



University of Jaffna, Sri Lanka

in collaboration with

University of Illinois at Chicago, USA

UIC
UNIVERSITY
OF ILLINOIS
AT CHICAGO

April 16-18, 2014

Resource persons

Prof. Siva Sivananthan

*Founder and Chairman of the Board of Directors at Sivananthan Laboratories, Inc
and Distinguished Professor of Physics, UIC*

Dr. Tim Coutts

Fellow Emeritus at NREL and Adjunct Professor in Physics, UIC

Dr. Ramesh Dhere

President, Episolar Inc., USA and Adjunct Professor in Physics, UIC

Dr. Tim Gessert

*Principal Scientist, Group Manager - Polycrystalline Thin Film PV Devices, NREL
and Adjunct Professor in Physics, UIC*

Dr. Mowafak Al-Jassim

Principal Scientist, National Center for PV, National Renewable Energy Laboratory (NREL), USA

Sivananthan Laboratories, Inc. Illinois, USA in collaboration with Sri Lankan Universities and Research Institutes, has launched a programme to develop a trained workforce of scientists, engineers and technicians in Sri Lanka who will be competent in alternative energy technologies. In order to contribute toward this, a two day workshop on **Thin-film Solar Cells** was held at the **Institute of Fundamental Studies**, Kandy on **June 28 & 29, 2012** and an advanced workshop in this series was held at the **University of Ruhuna**, Matara on **March 19-21, 2013**. As a successor, the third workshop and a laboratory training session on fabrication & characterisation of solar cells are being organised to be held on **April 16 -18, 2014** at the **University of Jaffna**.

Scientists and Engineers from universities / research institutes / other state and private sector organizations, preferably with a PhD / MPhil / MSc or equivalent postgraduate or professional qualifications, and also graduates in Engineering and Science who have an interest in participating in this activity and hoping to be active players of a vibrant photovoltaic R & D community in Sri Lanka are invited to send their completed applications **by e-mail (physics@jfn.ac.lk) and a signed copy by post or fax (021 2225924) to Co-ordinator, Workshop on Solar Cells, Department of Physics, University of Jaffna, Thirunelveli, Jaffna on or before March 28, 2014 (Friday).**

Workshop on Thin Film Solar Cells

Their Technology & Business Potential for Sri Lanka



University of Jaffna, Sri Lanka

in collaboration with

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April 16-18, 2014

Agenda

Day 1 - 16.04.2014 (Wednesday)

Inaugural Session

08:30	Registration
08:40	Welcome address by the Co-ordinator of the workshop
08:50	Address by Prof.Siva Sivananthan, the Gold Sponsor and CEO of three companies in US
09:00	Address by the Dean / Science
09:05	Address by the Chairman / University Research Committee
09:10	Address by the Vice-Chancellor / University of Jaffna
09:20	Address by the Vice-Chairman / University Grant Commission

Day 1 - 16.04.2014 (Wednesday)

Lectures

Time	Resource Person	Topic
09:30	Prof.Siva Sivananthan	Developing a PV Workforce for Sri Lanka
Tea & discussion (10:00 – 10:30)		
10:30	Dr.Tim Coutts	Energy and Society
11:00	Dr. Ramesh Dhere	Climate change and possibilities for renewable energy in Sri Lanka
11:30	Dr. Mowafak Al-Jassim	Materials availability for construction of PV systems in Sri Lanka: why a thin-film industry is needed?
12:00	Dr. Tim Gessert	Development of a SL PV industry for domestic use and export
Lunch (12:30-13:15)		
13:15	Dr. Ramesh Dhere	Thin film deposition options
14:00	Dr. Tim Gessert	Vacuum technology on a budget
Tea (14:45-15:15)		
15:15	Dr.Tim Coutts	Non - vacuum methods of thin film deposition
16:00	Dr. Tim Gessert	Safety considerations in thin film synthesis
Cultural Programme & Workshop Dinner (19:00 – 21.30)		

Day 2 - 17.04.2014 (Thursday)

Lectures

Day 2 - 17.04.2014 (Thursday)		
08:30	Dr. Ramesh Dhere	Fundamentals of PV systems
09:15	Dr. Ramesh Dhere	Installation of a PV home-system
Tea (10:00-10:30)		
10:30	Dr. Tim Coutts	Characterization of PV cells
11:15	Dr. Mowafak Al-Jassim	Characterization of PV systems
Lunch (12:00-13:00)		
13:00	Dr. Tim Gessert	Reliability of PV systems
13:45	Dr. Mowafak Al-Jassim	An overview of PV research and development at NREL
14:30	Resource persons	Open Q & A session
15:30	Concluding remark by Prof.M.A.K.L.Dissanayake & Media Briefing	
Vote of Thanks & Tea (16:00 -16:30)		

Day 3 - 18.04.2014 (Friday) 08.30 -16.30 Laboratory Training on Solar Cells

Sponsored by Sivananthan Laboratories Inc., USA & HETC, Ministry of Higher Education, SL