The 141st Ninomiya House Evening Forum

JST International Residence for Researchers holds Evening Forum, which ranges a variety of themes such as culture of Japan and countries of the residents, and the latest scientific researches. Everyone is welcome to this special evening.

JST外国人研究者宿舎では、
イブニング・フォーラムを開催いたします。
テーマは、日本文化、居住者による出身国の紹介、
研究発表など多岐にわたります。
皆様お誘い合わせの上お越しください。

CONTACT
お申込・お問合わせは

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ホームページよりお申し込みください✉

Solar Energy:
Past, Present, and Future

Thursday, February 23rd, 2017 / Ninomiya House 9F Salon

Energy harvested from the sun has begun to make a significant contribution to many of our daily lives over the last couple of decades. The ability to turn sunlight into usable energy is largely accomplished through photovoltaics, or devices that directly turn sunlight into electricity. Development of the photovoltaic devices in use today relied on several fundamental scientific breakthroughs and is still acknowledged as an important research topic by many governments as well as academic institutions around the world. Producing higher performance photovoltaic devices could give a growing global population thirsty for more energy access an environmentally sensitive option to traditional energy sources. Ideally the existence of an energy source with sufficient output that is cost competitive with traditional energy sources would mean the opportunity to take a greater share of the global energy market. However, both political and financial forces can affect the more widespread implementation of solar energy.

This discussion will present an overview of the science behind photovoltaic devices, some of the interesting current versions of the technology, and also where solar energy stands in terms of cost and implementation today.

太陽エネルギー
－開発･誕生、現状、そして未来

この20年程の間に、太陽光エネルギーは私たちの日々の暮らしの中で広く利用されるようになりました。太陽光をエネルギーに変える技術は、主に太陽光発電や太陽光を直接電気に変換する装置として実現されています。基礎科学の飛躍的進歩に依り、今日使われている太陽光発電装置が開発されましたが、今もなお世界中の政府や学術機関で重要な研究テーマとして扱われています。より高性能な太陽光発電装置が製造されれば、世界人口が増大し、より多くのエネルギーが必要とされていく中で、従来のものに対して、環境にやさしいエネルギー源となるでしょう。従来のエネルギー源より経済的で、十分な産出量のある太陽光エネルギーの世界市場シェアは、今後拡大することが期待できます。しかしながら、政策や財政的な問題が太陽エネルギーの普及推進に影響を及ぼすことも考えられます。

今回は、太陽光発電の科学的概要、最新テクノロジー、太陽光エネルギーのコストと実用化における現状についてお話ししたいと思います。

Lecturer	**Dr. Harvey Guthrey** (National Renewable Energy Laboratory, United States)
Time	18:30-19:30 Lecture 19:30-20:00 Social Hour
Charge	700yen per person (Drinks & light meal served)
Language	English

***Please apply online via our homepage by February 21st, Tuesday.** Please be aware that the number of seats is limited so some applications may have to be declined once it reaches its capacity. Children aged 12 or under are not admitted to the event. Please inform the office if you bring children under 12 and we will provide a babysitter at free of charge. Visitor's parking space is limited and we would appreciate if you could come in a group by sharing a car. Alcohols may be served in the event. Please refrain from drinking if you drive home.

You can also find information about the forum in our Homepage.
ホームページにもフォーラムの情報を掲載しています。
http://www.jst.go.jp/inter/jsthouse/en/index.html

Coming Soon（次回の予定）:
To be decided 未定