



JOIN THE CENTURY OF SOLAR

A Year of Virtual Celebration

SWC50 - The Century of Solar Virtual Conference

Newsletter – June 2020

The SWC50 virtual conference will be held on 3rd and 4th December, with two follow up webinars in 2021 and a final session at the next solar world congress. The virtual conference in December will comprise a total of six 90-minute sessions spread over the 2 days. All sessions will be recorded so those that register will be able to watch the session at a later time.

The topics for the sessions are:

- Covid-19 and the Energy Transformation: Lessons learnt, and pathways needed to be explored
- Transforming and Growing the Electricity Sector: The Role of Sector Coupling to Meet our End Use Energy Through Electricity
- Transforming the Heating and Cooling Sectors: Solar Thermal and Other Technologies to Meet the Heating Requirements of Industry and the Heating and Cooling Requirements of Communities and Buildings
- Transforming the Transport Sector: Sector Coupling, and the Future Roles of Biofuels and Hydrogen/Fuel Cell Technologies
- Garnering Public Support to Achieve the 100% Renewable Energy Transformation
- Enabling a Policy Landscape and the Financial Markets to Achieve 100% Renewables

There will be a series of webinars held during 2021. The 12-month SWC50-Century of Solar Celebration will conclude with the face to face session at the 2021 Solar World congress.

SWC50 – The Call for Renewable Energy Pioneers

Each month the newsletters will have a brief article on people involved with renewable energy prior to 1980. These people will come from research and/or industry. However, it is impossible in a short couple of paragraphs each month over the next 18 months to cover the thousands who have contributed to the renewable energy world prior to 1980.

What is SWC50 – The Century of Solar?

In 1970 solar research pioneers met at the first International Solar Energy Society (ISES) Conference in Melbourne Australia. ISES is commemorating this Conference with a special 50th Anniversary Virtual Conference, called the Solar World Congress at 50 (SWC50).

During these past 50 years solar energy has grown from being emerging technologies to a vibrant industry. The Century of Solar highlights the transformation in the global energy sector that has taken place since the first Solar World Congress in 1970 and looks forward to the next 50 years when solar energy will be a major cornerstone of the global energy system. While the focus is on the evolution of solar energy, the importance of other renewable energy sources working together to reach the 100% renewable energy world goal will be a central theme.

SWC50 - The Century of Solar is about the people: researchers, industry players, policy makers, and leaders of NGOs and Non-profit organizations who have all contributed to make solar energy the fastest growing contributor to new electricity capacity.

SWC50 Programme: The SWC50 virtual conference will be held on 3rd and 4th December 2020, with two follow up webinars in 2021 and a final session at the 2021 Solar World Congress.

Pioneers Pre-1980

We start with Farrington Daniels, the first president of the Solar Energy Society (1964-1967) elected by the membership and the name of the most prestigious award given at every Solar World Congresses (SWC).



1 Farrington Daniel in "The Fifty-Year History of the International Solar Energy Society and its National Sections" (2005) by Karl W. Böer, Volume 1, p. 7, ASES

Farrington Daniels was born in 1889 and died in 1972. He was a physical chemist and is considered one of the pioneers of the modern-day use of solar energy. He joined the University of Wisconsin as an assistant professor in 1920 and remained until his retirement in 1959 as chairman of the chemistry department.

Daniels became a leading international expert on the principles involved with the practical utilization of solar energy. He pursued understanding of the heat and the convection as well as the electrical energy that can be derived from the sun. In 1952 Farrington Daniels met Henry Sargent and suggested to him that there was a need for an organization to promote the development and application of solar energy. Two years later, on March 17, Sargent, with Walter Bimson and Frank Snell, organized the Association for Applied Solar Energy, AFASE. Sargent was the first president.

In 1953, Farrington Daniels organised a symposium at Wisconsin on solar energy that again covered a wide range of topics, with a broad range of speakers. Thirty speakers from five countries participated, with proceedings published in the book 'Solar Energy Research'. During these early years Farrington Daniels attended a number of conferences within the US and also one in New Delhi in 1954. Through these conferences Farrington Daniels built many good friendships across the small but growing international solar energy research world. One of these was Roger Morse from the Australian Commonwealth Scientific and Industrial Research Organisation (CSIRO) who was to be the conference chair of the first Solar World Congress in Melbourne in 1970.

Farrington Daniels was an active member of AFASE. The AFASE became known as the Solar Energy Society in the early 1960's, and Farrington Daniels became its first president; a position he maintained until 1967.

More information on Farrington Daniels and the early years of ISES will be included in the SWC50 - The Century of Solar Virtual Museum and in the booklet: The Century of Solar- Stories and Visions of Renewable Energy.

ISES is calling for submissions of the names of individuals covering the following two categories:

1. **Research Pioneers:** Individuals who started their research in 1995 or earlier.
2. **Industry Pioneers:** Individuals who actively started working in or with the renewable energy industry in 1995 or earlier.

Names and information can be [submitted online](#) in the relevant form. Individuals can submit on behalf of themselves or in behalf of someone else, particular those who might have passed away.

Partners and Supporters

There are currently 1 partner and 18 supporters of SWC50. These can be found on the website swc50.org

Please contact our team at swc50@ises.org if you want to join SWC50 as a supporter or partner.