

Edmond Becquerel: A Passion for Light

7th December 2020, Online Conference, preliminary program

Opening session 8.30 am-9.00 am

Adresses from Key institutions (MNHN, IPVF, CNAM, Académie des Sciences, Becquerel Committee)

Introductory Lectures 9 am-9.45 am

- Gérard Mourou (Nobel Prize in Physics 2018, Ecole polytechnique): "*A Passion for Extreme Light*"
- Christine Blondel (CNRS): "*The Becquerel family, a line of experimenters*"

Edmond Becquerel's Contributions

Photovoltaics 9.45 am-10.30 am

- Daniel Lincot (CNRS-IPVF): "*Panorama of life and work of Edmond Becquerel with a focus on photovoltaics discovery*"
- Jérôme Fatet (University of Limoges): "*The electrochemical actinometer*"

Photography 10.30 am-11.15 am

- Bertrand Lavédrine (MNHN), Victor de Seauve (CRC): "*Edmond Becquerel and photography*"
- Lucia Reining, Francesco Sottile (Ecole polytechnique): "*Color photography by Edmond Becquerel and quantum mechanics*"

Phosphorescence and Luminescence 11.15 am-12.00 am

- Guilhem Gallot (Ecole polytechnique): "*The phosphoroscope of Edmond Becquerel: the reconstructed experience*"
- Jean-François Guillemoles (CNRS-IPVF) "*From phosphorescence to the ultimate efficiency of solar cells*"

Discussion session 12.00 am-0.30 pm

Lunch Break

Worldwide Contributions to Becquerel's heritage 2.00 pm-5.00 pm

- Joachim Luther (President of the Becquerel Committee): "*The European Becquerel prize*" 2 pm-2.15 pm

Keynote presentations

- Henry Snath (Oxford PV) Awardee 2020: "*The adventure of Perovskite solar cells*" 2.15 pm-2.45 pm
- Christophe Ballif (CSEM-EPFL) Awardee 2016: "*Photovoltaics today and tomorrow, from industry to artworks*" 2.45 pm-3.05 pm

Oral presentations

- Gaetan Masson (President of the Becquerel Institute): "*Photovoltaics in Europe*" 3.05 pm-3.20 pm
- Xavier Daval (SER), Richard Loyen (ENERPLAN): "*Photovoltaic industry in France in 2020*" 3.20 pm-3.40 pm

Selected video testimonies from US, Japan, India etc. 3.40 pm-5.30 pm

Discussion session 5 pm -5.30 pm

Closing Ceremony 5.30 pm

Language: In French and English with simultaneous translation.

On line access: ZOOM

Web Site, Program and registration : <https://www.ipvf.fr/symposium-edmond-becquerel/>

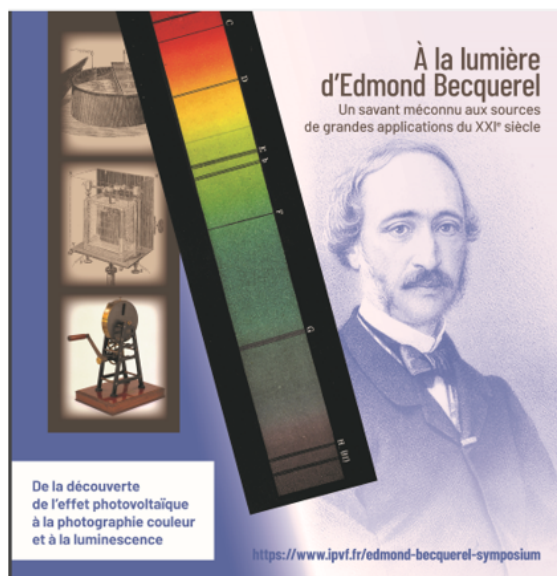
Call for Testimonies

Invited international and national testimonial contributions in relation with Edmond Becquerel's life and discoveries will be available to registered participants during the whole day. Please contact the organisers if you are willing to submit a proposal (15 min video submitted before 23th of November)

Edmond Becquerel : A Passion for Light

Online Celebration of his 200th Anniversary

December 7th, 2020, Paris



Becquerel (1788-1878) and the father of Henri Becquerel (1852-1908), discoverer of the natural radioactivity and Nobel Prize in Physics (1903) with Pierre and Marie Curie. He conducted his research and teaching at the Museum National d'Histoire Naturelle and at the Conservatoire National des Arts et Métiers. He was a member and then the president of the French Academy of Sciences (1880). He is behind major advances in the study of the effects of light on materials, with in particular **the discovery of the photovoltaic effect (1839)**, the invention of the first color photography process (1848) and the invention of the phosphoroscope (1858). Though his work is recognized worldwide, he remains relatively unknown in France. The celebration of its 200th birth anniversary is an opportunity to re-discover his exceptional scientific contributions and their current relevance.

Edmond Becquerel (1820-1891) was born on March 24th. He was the son of Antoine

Organisers:

Daniel Lincot, CNRS, Institut Photovoltaïque d'Île de France (IPVF). daniel.lincot@cnrs.fr

Bertrand Lavédrine, Centre de Recherche sur la Conservation – Muséum National d'Histoire Naturelle, Paris. bertrand.lavedrine@mnhn.fr

Organisation and advisory committee : *E. Amouyal, O. Azzola, L. Barbo, N. Barreau, C. Blondel, J.-E. Bourée, G. Cadonau, G. Chambaud, J.-P. Chevalier, A. Crossay, X. Daval, G. Delport, R. Drozdowski-Strehl, L. Dufaux, A. Grassi, J.-F. Guillemoles, D. Guthleben, V. Jacques Le Seigneur, A. Joffre, A. Jouini, J.-P. Kleider, M.-A. Languille, F. Lambert, J.-L. Lazzari, M. Leduc, T. Leroux, J.-M. Lourtioz, R. Loyen, J. Luther, P. Malbranche, G. Masson, W. Palz, P. Roca i Cabarrocas, P. Rigny, D. Roux, N. Schneider*, H. Schock, A. Slaoui, C. Subran, D. Suchet, J.-M. Tarascon, B. Theys*

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