Symposium 1:
Crystalline and Amorphous Transparent Optical Materials and Photonic Technologies

Transparent crystalline and amorphous optical materials have a wide range of applications in the fields of optoelectronics, optics, photonics, defense protection, bioengineering, and sustainable energy. The symposium is aimed at providing a forum for researchers, students, and entrepreneurs to present and discuss their recent scientific results on a wide variety of topics related to science and engineering issues associated with transparent crystalline and amorphous materials and photonic technologies. An emphasis will also be placed on the fundamental issues to advance our understanding and utilizations of advanced transparent materials and related-devices applied to environment, healthcare, and energy.

<PROPOSED SESSION TOPICS>

- Functionality of transparent crystalline and amorphous materials
- Fundamental sciences of optical transparent materials
- Photonic and optical transparent materials
- Novel transparent materials design and mechanical properties
- Advanced processing of transparent materials and devices
- Transparent materials for scintillators and spectroscopy
- Optoelectronic transparent materials
- Crystalline and amorphous transparent laser materials
- Optical materials for bioengineering and sustainable energy
- Persistent phosphor materials and their applications
- Crystal/ceramic fiber for solid state laser application
- Mid-infrared application of optical materials
- Modeling and theory computation of optical materials

<ORGANIZERS>

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<INVITED LECTURES>

Tentative invited lecture information is posted in the following URL;
http://www.ceramic.or.jp/pacrim13/list_of_invited_speakers.html#1