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Publisher: Taylor & Francis

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Molecular Crystals and Liquid Crystals

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/gmcl20>

Preface

Toshihiko Nagamura ^a

^a Chair of KJF2010, Kyushu University, Japan

Version of record first published: 16 May 2011

To cite this article: Toshihiko Nagamura (2011): Preface, Molecular Crystals and Liquid Crystals, 538:1, ix-x

To link to this article: <http://dx.doi.org/10.1080/15421406.2011.564529>

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Preface

The KJF-International Conference on Organic Materials for Electronics and Photonics (KJF2010) was held on August 22 to 25, 2010 at the Kitakyushu International Conference Center in Kitakyushu, Fukuoka, Japan. The original research papers submitted as conference proceedings were carefully and critically reviewed by many referees following the journal's high standard. Those accepted after such reviewing processes are presented in this special issue of the *Molecular Crystals and Liquid Crystals*.

For the present and near future electronic and photonic devices, it will be essential to take into accounts of the energy needed to fabricate them and also their environmental impacts in addition to high performance. Organic materials are expected to satisfy almost all such requirements thanks to the freedom in molecular design, flexibility, light weight, and processibility at ambient conditions. Many efforts have been made to realize printed electronics, roll-to-roll fabrication of solar cells, and electronic papers just as a few examples. Since research and developments on organic materials and devices are interdisciplinary, they require broad experiences and collaborations of people in chemistry, physics, photochemistry, materials science, biology, electrical and electronic engineering, and others.

Looking back on the 22 years' history of KJF, I cited an idiom in Japanese, "Onkochishin" at the opening of KJF2010. It means that "You should consult the past if you want to learn about the future. History has a lot to teach you." During the times when KJF started in 1989, organic materials were not much more than possibilities or played only a minor role in technology. The first liquid crystal TV commercialized in 1984 by Epson Corp. was with only a two inch display! The first organic transistor by polythiophene was reported by Mitsubishi Electric Co. in 1987. As can be seen from these examples, many fundamental and practical application-oriented researches on organic materials were started and conducted during such years in Japan. KJF has contributed a lot to the progress of nonlinear optics, electro-luminescent materials & devices, organic transistors, or polymer solar cells.

Scientists and students from Australia, New Zealand, Taiwan and Thailand joined KJF2010 as the second reorganized KJF-International Conference in addition to many people from Japan and Korea. This conference was hopefully a good occasion not only to exchange ideas and most recent results among people with broad backgrounds and interests, but also to renew friendships and to make new friends.

On behalf of the organizing committee, I'd like to express my sincere gratitude to all the participants who gave talks, presented posters and make hot discussions. Special thanks are due to Prof. Hiroyuki Sasabe and Prof. Nakjoong Kim as KJF honorary chairs, Prof. Kwang-Sup Lee and Dr. Kiyoshi Yase as KJF chairs, Prof. Chan Eon Park as the conference co-chair, Prof. Keiji Tanaka as the secretary general, and other KJF international committee and local organizing committee

members for their efforts and supports. Financial supports from Tokuyama Science Foundation, The Society of Polymer Science, Japan, The Japan Society of Applied Physics, US Army International Technology Center-Pacific, and West Japan Industry and Trade Convention Association are also greatly appreciated.

Toshihiko Nagamura
Chair of KJF2010
Kyushu University, Japan