

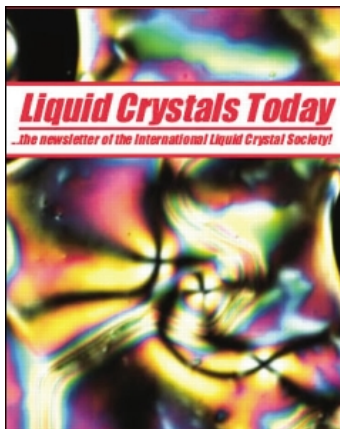
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## Society News

Giancarlo Galli

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# SOCIETY NEWS

from the Secretary **Giancarlo Galli**

## Elections and New Board Members

As mentioned elsewhere in this issue, the results of the election for President and Vice-President were announced during the 16th ILCC held at Kent State University in June of this year. Atsuo Fukuda (Tokyo Institute of Technology, Japan) is the new President and John Goodby (University of Hull, UK) is the new Vice-President. In accordance with the bylaws of the ILCS, new Officers and Regional Representatives were also appointed and a complete list is given below.

## Officers and Board Directors of the ILCS

### PRESIDENT

#### A. Fukuda

Tokyo Institute of Technology  
Dept Organic & Polymeric Materials  
O-okayama, Meguro-ku  
Tokyo 152, Japan  
fax: +81-3-5734-2876  
e-mail: afukuda@o.cc.titech.ac.jp

### PAST PRESIDENT

#### G.R. Luckhurst

University of Southampton  
Dept of Chemistry  
Southampton SO9 5NH, UK  
fax: +44-1703-593781  
e-mail: gl@soton.ac.uk

### VICE-PRESIDENT

#### J.W. Goodby

University of Hull  
School of Chemistry  
Hull HU6 7RX, UK  
fax: +44-1482-466410  
e-mail: j.w.goodby@chem.hull.ac.uk

### SECRETARY

#### G. Galli

Universita di Pisa  
Dipartimento di Chimica e Chimica Industriale  
Via Risorgimento 35  
56126 Pisa, Italy



From left to right: Giancarlo Galli (ILCS Secretary), Geoffrey Luckhurst (ILCS outgoing president), Bill Doane (16th ILCC Honorary Chairman), Shirley Doane, Atsuo Fukuda (ILCS incoming president), Satyen Kumar (16th ILCC Chairman)

fax: +39-50-28438  
e-mail: gallig@dcci.unipi.it

### TREASURER

#### P. Palffy-Muhoray

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### MEMBERSHIP SECRETARY

#### O. Lavrentovich

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e-mail: olavrent@kentvm.kent.edu

### NON-EXECUTIVE DIRECTORS

D.J. Broer (The Netherlands)  
A. Buka (Hungarian LCS)  
S.H. Chen (ROC, Taiwan)  
M. Copic (Slovenia)  
R. Dabrowski (Poland)  
R.Y. Dong (Canada)  
G. Gottarelli (Italy)

G.W. Gray (British LCS)

A. Griffin (USA)

D. Guillon (France)

G. Heppke (Germany)

C.C. Huang (USA)

S.-C.A. Lien (USA)

J. Patel (USA)

I.P. Pinkevich (Ukrainian LCS)

J.S. Prasad (Indian LCS)

D.J. Pusiol (Ibero-American LCS)

F. Simoni (Italian LCS)

B. Stebler (Scandinavia)

V. Titov (Russian LCS)

H.R. Trebin (Germany)

H. Yokoyama (Japan)

### CONFERENCE COMMITTEE

Chair: H.R. Trebin

### HONOURS AND AWARDS COMMITTEE

Chair: P.E. Cladis

### PUBLICATIONS COMMITTEE

Chair: D.A. Dunmur  
(Editor, *Liquid Crystals Today*)

## Glenn Brown Awards 1996

The latest round of awards attracted an exceptional number of high quality nominations for the Glenn Brown Award, which is given for outstanding theses in the field of liquid crystal research, and as a result four awards were made. These were announced at the 16 ILCC as follows:

### Harald Bock

(Berlin Free University, Germany)

**Switching Columns: Electrooptic Effects with Columnar Liquid Crystals**

### Won Hee Han

(McGill University, Canada)

**Computational Modelling of Orientation and Flow Instabilities, Textures, Rheology, and Optics of Shearing Nematic Liquid Crystalline Materials**

### Takashi Sugiyama

(Tokyo University of Agriculture and Technology, Japan)

**Study of the Electrooptical Characteristics of Amorphous and Multidomain TN-LCDs: Computer Simulation, Designing, and Experimental Verifications**

### Bing Xu

(University of Pennsylvania, USA)

**Approaches to Spontaneously Polar Materials: Investigations of Bowlic Liquid Crystals Based on Calix-[4]-arenes**

The selected laureates, except Dr Sugiyama who was not present, each delivered a lecture based on their thesis work in a special session of the 16th ILCC at Kent, that were much appreciated by the conference delegates.



The ILCC President Geoffrey Luckhurst presents one of the Glenn Brown Awards to Won Hee Han (McGill University, Canada).

## Forthcoming International Conferences

The **17th ILCC** will be held in **Strasbourg (France)** in **July 1998**.

Chairman: **A. Skoulios**

Secretary: **D. Guillon**

Advance enquiries may be addressed to:

The Secretary, Dr Daniel Guillon, *Institute Physique Chimie des Materiaux, BP 20 CR, 67037 Strasbourg, France.*

The **18th ILCC** will be held in **Sendai (Japan)** in **July 2000**.

Chairman: **K. Okano**

Secretary: **H. Toriumi**

Advance enquiries may be addressed to:

The Secretary, Dr. Hirokazu Toriumi, *University of Tokyo, Department of Chemistry, 3-8-1 Komaba, Meguro, Tokyo 153, Japan.*

## A New President and Vice-President for the ILCS

In accordance with the bylaws of the ILCS, the President and Vice-President are elected by the membership and can serve for two consecutive terms. Both Geoffrey Luckhurst and Shunsuke Kobayashi were due to retire from their offices at the past 16th ILCC. Results of the elections held by the ILCS were announced by the Secretary Giancarlo Galli during the Members Meeting at the ILCC on Wednesday June

26, 1996. Nominations had been received for two candidates for the position of President and two candidates for Vice-President, and in a close ballot after scrutiny the successful candidates were Atsuo Fukuda, Japan (President) and John W. Goodby, UK (Vice-President).

Atsuo Fukuda, Tokyo Institute of Technology, is well known to the community of liquid crystal scientists especially

for his research on chiral smectics. His activity is mostly concerned with fundamental principles but also involves applications in advanced technology. His work has greatly contributed to the understanding of the physical principles leading to *antiferroelectric* and other different smectic phases and subphases. He has previously served as a Board Director of the ILCS.

John Goodby is also well known to our community for his interests in chiral liquid crystals. His work at Bell Labs and more recently at the University of Hull has covered many aspects of the chemistry of liquid crystals, including TGB phases and liquid crystalline polymers, embracing synthesis, characterization and applications.

The Society warmly welcomes our new President and Vice-President and looks forward to a continuing successful expansion of its activities and to a sustained response to its demanding and growing needs under their leadership. We must also record our sincere gratitude to the retiring President, Geoffrey Luckhurst, whose dedicated efforts, skills and enthusiasm have guided the Society for four years and have resulted in new initiatives. These include a new contract for the publication of our Newsletter (in collaboration with the Editor, D. Dunmur), establishing new and formal relationships with the ILCC, facilitating affiliations of national or regional liquid crystal societies, and starting a revision of liquid crystal nomenclature in cooperation with the IUPAC commission. Shunsuke Kobayashi has completed his terms as Vice-President, and his wise advice has been greatly appreciated. Bill Doane and Chuck Rosenblatt have also retired from their offices as Treasurer and Membership Secretary, respectively, while Sven Lagerwall has retired from the chair of the Honours and Awards Committee. We must thank them all for their dedication and commitment to the benefit of our Society.

*Giancarlo Galli*  
Secretary, ILCS

## TREASURER'S REPORT presented at 16 ILCC

Balance on hand, 1 January 1995 \$30094.76

<b>Expense</b>	
Filing fee (Ohio)	50.00
Banking expenses	768.75
Office expenses	1060.226
Newsletter ( <i>Liquid Crystals Today</i> )	1025.00
Glenn Brown Award certificates (printing)	725.00
<b>TOTAL EXPENSES</b>	<b>3629.01</b>

<b>Income</b>	
Member dues	9564.00
Advertising ( <i>Liquid Crystals Today</i> )	200.00
Interest on savings	880.43
<b>TOTAL INCOME</b>	<b>10644.43</b>

Checking	5264.59
Savings	31834.30
Petty Cash	11.29
<b>TOTAL</b>	<b>37110.18</b>

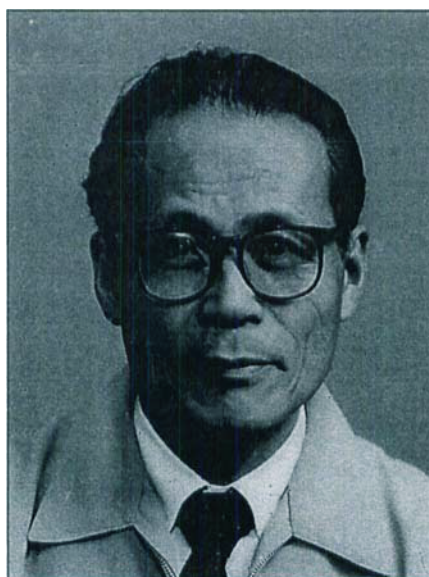
Balance on hand, 31 December 1995 \$37110.18

**J.W. Doane, Treasurer ILCS**  
**Liquid Crystal Institute**  
**Kent State University**  
**Kent**  
**OH 44242**  
**USA**

## Presidential Message

From the new President Professor **Atsuo Fukuda, Department of Organic and Polymeric Materials, Faculty of Engineering, Tokyo Institute of Technology, Japan**

**W**e all enjoyed the 16th International Liquid Crystal Conference (ILCC), held at Kent State University in Ohio, USA, exchanging scientific ideas and technological advances in every aspect of liquid crystal research, and our thanks go to Bill



Doane, Satyendra Kumar, and all of the organizing committee members. Most will know that Kent State University is the birth place of the International Liquid Crystal Conference. Professor Glenn Brown organized the first one in 1965, and it is an honour for me to be elected to the ILCS President in this memorable place. The Vice-President also elected for your Society is John Goodby.

Needless to say, the Society exists for its members. The activities of our Society have evolved from the Planning and Steering Committee for ILCCs which it replaced in 1990. Consequently, one of its major functions is to sponsor the biennial ILCC. The need for such a conference is clearly demonstrated by the

large number of participants at the most recent 16th ILCC at Kent. A key to the success of these conferences is the choice of enthusiastic and efficient organizers as well as a sympathetic location; and the organizers need to be farsighted from a multi-disciplinary viewpoint, which is important for the advancement of research and knowledge in liquid crystals. The choice of location for the ILCC is normally made four years before the event by inviting detailed bids from those wishing to host the conference. The Board of Directors has decided under the guidance of the Chairman of the Conference Committee, Hans-Rainer Trebin, that the 17th ILCC in 1998 will be held in Strasbourg (France) and the 18th ILCC in 2000 will take place in Sendai (Japan). Both are exciting venues and we expect approaching 1000 liquid crystal scientists and engineers will surely enjoy the conferences.

The initial funding for the ILCS came from the former PSC for ILCCs. The Treasurer at that time, Bill Doane, had arranged tax-exempt status for the PSC, and a change of name to the ILCS enabled the Society to enjoy tax-exempt status as a non-profit making organization in USA. But now where does ILCS money come from, where does it go, and why do we need more? As you will have read in the Treasurer's Reports printed in *Liquid Crystals Today* (Vol. 1 (1991) No. 1, Vol. 2 (1992) No.3, Vol. 4 (1994) No.2) the main source of income is from members dues and the main expense has been the Newsletter (*Liquid Crystals Today*). This is quite natural, because one of the most important ILCS objectives is the publication of a journal, *Liquid Crystals Today*, as the founder President, S. Chandrasekhar, wrote in the first issue. It is intended to provide a forum for liquid crystal scientists and engineers worldwide, through which information and ideas can be exchanged. I earnestly hope that *Liquid Crystals Today* will be of the highest possible quality, attracting not only scientific but also industrial interest, and this could generate significant funding for the society. David Dunmur has agreed to continue as Editor of *Liquid Crystals Today*.

The ILCS has grown to about 800 paid-up members in more than 40 countries. It serves as an umbrella organization for regional societies, British, Canadian, Hungarian, Ibero-American, Indian,

Italian, Russian, and Ukrainian LCSs, which have been established so far. I hope that the various national or regional groups will affiliate to the ILCS. It is a policy of the Society to disseminate information and encourage research into liquid crystals especially in developing countries and regions so that scientists and engineers there will start new programmes and bring new ideas to liquid crystal science and technology. The Society is on the World-Wide Web (<http://alcom.kent.edu.ILCS>). Information available at present includes members' addresses, forthcoming meetings, and positions vacant; inquiries may be addressed to Peter Palffy-Muhoray, new Treasurer. The new Membership Secretary, Oleg Lavrentovich, will also provide information for individual members on request. Another important heritage from the PSC for the Society is a prize in honour of Professor Glenn Brown for outstanding PhD theses in the field of liquid crystal research. The research and its presentation at the 16th ILCC at Kent were of a high quality and confirm that the field of liquid crystals continues to attract talented and creative young scientists; and hopefully the Glenn Brown Awards encourage them. Pat Cladis has been appointed as the new chairperson of the Honours and Awards Committee. Due to the high cost of maintaining these activities for the liquid crystal community, the ILCS is unable to fund all of the desirable and worthy requests it receives. Consequently, in order to maintain and expand the Society's activities, it is important that we establish a broad membership base, and I urge those of you who have not yet joined the Society to do so now. I earnestly hope that a significant source of income will be through Sustaining Membership, and if you are in a company with liquid crystal interests perhaps you will propose it for Sustaining Membership. Last but not least, I would like to express my sincere gratitude to the retiring President and Vice-President, Geoffrey Luckhurst and Shunsuke Kobayashi, and Officers and Board Members for their valuable contributions to the ILCS, and call on all the new Officers and Board Members, particularly Vice-President John Goodby and Secretary Giancarlo Galli, for their sound advice and strong support.

## Book Review

### Liquid Crystals in the Nineties and Beyond

Editor: Satyen Kumar

Published by World Scientific, Singapore, 1995

Review by Jay S. Patel, Physics Department, Penn State University, USA

The book is written by experts in the field, intended for people with some familiarity with liquid crystals. It contains a collection of chapters, primarily in the area of fundamental physics of these materials.

The first third of the book is devoted to various aspects of phase behaviour in liquid crystals, which is an appropriate choice because of the unique variety of phase behaviour that these materials exhibit. The treatment ranges from numerical simulations of phase transitions and critical phenomenon, to experimental examination of these properties. The experimental techniques include calorimetric studies in bulk materials to confined geometries and free standing films.

Defects in liquid crystals is another area that has been treated in some detail, in at least three chapters, ranging from a review of defects in liquid crystals to the less familiar defects in thin films which arise from the competition between the bulk and the surface contributions arising from  $K_1$  and  $K_2$  divergence terms. These divergences are also examined in the case of liquid crystals confined to curved geometry, like those encountered in polymer dispersed liquid crystals, in another chapter.

The remaining portion of the book is devoted to other aspects of liquid crystals ranging from a chapter on theory of ferroelectric liquid crystals, optics of liquid crystals, rheology of polymer liquid crystals and a chapter on improving the viewing angle for display devices with grey scale.

The review nature of these chapters makes the book attractive for those interested in these areas outlined above, since it provides a handy overview with citation to the original research articles. In some cases the chapters end with possible future directions of research.