

# LT23 FINAL REPORT

## Venue and program

The 23rd International Conference on Low Temperature Physics (LT23) was held in Hiroshima, Japan on August 20-27, 2002. All sessions took place in the International Conference Center, Hiroshima.

The conference program consisted of five parallel program lines:

- 1) Quantum Gases, Fluids and Solids
- 2) Superconductivity
- 3) Magnetism and Properties of Solids
- 4) Quantum Electron Transport
- 5) Applications, Materials and Techniques.

The scientific program included 230 oral and 1182 poster presentations. The oral presentations consisted of three Fritz London Memorial Prize lectures, two full-plenary talks, 16 half-plenary talks, 83 30-minute invited talks, and 126 15-minute invited brief reports. The daily program started with four half-plenary lectures, followed by five parallel oral sessions (both in the morning and the afternoon), and ended with poster sessions. Award for best posters has been given, for the first time, at the closing ceremony.

## Attendance

1,466 people from 35 countries (including one region), participated in LT23, with additional 67 accompanying persons. Details are shown in Annex 1. The number of registered participants at previous LT Conferences can be seen in the following table.

LT18	1987	Kyoto	1563
LT19	1990	Brighton	1212
LT20	1993	Eugene	1229
LT21	1996	Prague	1421
LT22	1999	Helsinki	1381
LT23	2002	Hiroshima	1466

## **Abstracts, manuscripts, and Proceedings**

Following in the footsteps of LT22, LT23 has intensively used electronic communication for handling abstracts and manuscripts, including submission, editorial processing and dissemination. Of the total 1732 abstracts submitted to LT23, 1,717 were published in the Abstract Booklet.

1,402 manuscripts were subsequently received. Out of these, 1,293 were in the correct electronic format and could be included in uncorrected and unrefereed form on CD-ROM. This pre-conference CD-ROM was distributed to the participants in the registration package upon arrival at the conference site.

All manuscripts have been carefully refereed after the Conference. The 1,313 accepted papers will be published in special (but consecutively numbered) issues of *Physica B*, *C*, and *E* in April 2003. The 381 papers in Section #2 (Superconductivity) will be published in *Physica C*. The 165 papers in Section #4 (Quantum Electron Transport) will be published in *Physica E* and the remaining 767 papers in Section #1 (Quantum Gases, Liquids and Solids), Section #3 (Magnetism and Properties of Solids) and Section #5 (Applications, Materials and Techniques) will be published in *Physica B*.

The manuscripts of the Fritz London Memorial Prize lectures, the plenary talks and the half-plenary talks will be published in the most appropriate *Physica* journal.

The printed version of the full Proceedings was ordered by 129 participants (Annex 2). In addition, 76 *Physica B*, 63 *Physica C*, and 19 *Physica E* volumes were ordered. The printed Proceedings will also be available in libraries subscribing to regular issues of *Physica* or by accessing the Elsevier web site: <http://www.elsevier.nl/locate/cmweb/>.

## **Support**

The LT23 Organizing Committee received approximately 230 applications for support. The Financial Support Committee evaluated each application, mainly on the basis of science merit. The support was given to 211 participants including 76 invited speakers.

## **Exhibition**

An exhibition was held in the Conference Center. Altogether 22 companies participated in the exhibition, renting one to three booths each at the cost

of ¥250,000 (Japanese yen) per booth.

## Budget

The budget for LT23 was \$824,876 (US dollars) and is shown in detail in Annex 3. The figures include waived registration fees both as an income and as participant support in the expenditure.

Most of the conference income came from participant registration fees and accompanying person payments: ¥42,000 (\$336) and ¥5,000 (\$40) respectively. The total registration fee paid by each participant could include an optional payment for the Final Proceedings in Physica B (¥15,000), C (¥8,000), E (¥5,000), or the full set (¥23,000); the conference party (¥6,000) and a tour to Miyajima (¥3,500).

The remaining income came from the exhibition and contributions from IUPAP, 56 Japanese industries, and six scientific foundations.

On the expenditure side: over 33% of the budget was spent on the Proceedings, the social program, refreshments and participant support. The cost of the conference facilities amounted to 25% of the total budget. JCS Ltd., an outside service company, was hired to handle the registration payments and conference facilities.

The surplus of the LT23 budget, \$5,100, will be used to send copies of the Proceedings to various libraries in developing countries.

Kashiwa/Wako, January 15, 2003

Hidetoshi Fukuyama  
Co-Chair, LT23

Shun-ichi Kobayashi  
Co-Chair, LT23

## Annex 1

### LT23 ATTENDANCE BY COUNTRIES

Australia	2	Norway	1
Austria	4	Poland	2
Belgium	4	Romania	1
Brazil	6	Russia	25
Canada	9	Slovakia	1
China	12	South Korea	29
Croatia	3	Spain	2
Czech Republic	12	Sweden	11
Finland	25	Switzerland	17
France	35	Taiwan	26
Georgia	2	Turkey	3
Germany	62	Ukraine	9
India	6	United Kingdom	51
Israel	17	United States	142
Italy	16	Venezuela	2
Japan	918	Vietnam	1
Malaysia	1	Yugoslavia	1
The Netherlands	8		

---

1,466 participants from 34 countries and one region.

## Annex 2

### LT23 STATISTICS AT A GLANCE

#### General

Conference budget	\$824,876
Registration fee (¥42,000)	\$336
Number of participants	1466
Accompanying persons	67
Companies at Exhibition	22

#### Scientific program

Invited talks	230
Poster presentations	1182
Manuscripts received	1402
Accepted manuscripts	1313
Orders for full Proceedings (Physica B, C, & E)	129
Orders for Physica B	76
Orders for Physica C	63
Orders for Physica E	19

#### Social program attendance

Welcome reception party	471
Miyajima visit	302
Conference Party	403

#### Support

Support budget	\$82,200
Number of supported participants	135
Number of supported invited speakers	76
Total number of supported participants	211 (14%)

## **Annex 3**

### **LT23 BUDGET**

#### **Revenue**

Registration fees	\$526,184
Proceedings	\$39,060
Conference party	\$19,488
Miyajima visit	\$7,140
Exhibition	\$72,000
IUPAP	\$14,000
Donations	\$147,004
Total	\$824,876

#### **Expenditure**

Facilities	\$201,958
Proceedings	\$57,340
Printed materials	\$78,176
LT23 Office expenses	\$30,672
JCS	\$209,680
Social program and refreshments	\$134,116
C5 and Program Committee	\$4,120
Transportation	\$21,514
Participant support	\$82,200
Donation of Proceedings	\$5,100
Total	\$824,876