

## Preface

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The 10th International Symposium on Temperature and Thermal Measurements in Industry and Science, an event known as TEMPMEKO 2007, was held in Lake Louise, Alberta, Canada on May 20–24, 2007. The TEMPMEKO conferences are organized under the auspices of the International Measurement Confederation's (IMEKO) Technical Committee 12 (TC12), with responsibility for temperature and thermal measurements. The first event was held in 1981 in Karlovy Vary (Czechoslovakia), followed by Suhl (East Germany, 1984), Sheffield (United Kingdom, 1987), Helsinki (Finland, 1990), Prague (Czech Republic, 1996), Torino (Italy, 1996), Delft (The Netherlands, 1999), Berlin (Germany, 2001) and Dubrovnik-Cavtat (Croatia, 2004). Further information on IMEKO and TC12 is available at [www.imeko.org/tc12](http://www.imeko.org/tc12).

TEMPMEKO 2007 marked the first time that the Symposium was held outside Europe, and was organized by the Thermometry Group of the Institute for National Measurement Standards, National Research Council of Canada, the Canadian Member Organization of IMEKO. The 205 attendees came from 34 countries, making TEMPMEKO 2007 a truly international gathering. Geographically, there were 91 participants from Western Europe, 21 from Central and Eastern Europe, 46 from the Asia-Pacific, 44 from the Americas, and 3 from Africa. In addition to the 205 TEMPMEKO participants, 32 persons registered as exhibit booth staff and 9 as accompanying persons/spouses.

The conference began with an opening reception followed by a buffet dinner on Sunday evening May 20th that was a fun and informal mixer for friends and colleagues to renew acquaintances. One of the highlights was the “Mountie Meet and Greet” where attendees were given the opportunity to socialize and have photos taken with two

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retired members of the Royal Canadian Mounted Police attired in their distinctive dress uniforms. The conference program ran from Monday morning to Thursday evening. All meals and coffee breaks were included in the registration fee, so attendees were able to spend a great deal of time together, a situation befitting the conference theme—“Captive Audience, Captivating Location.”

Social events were created to have the participants spend time together outside of the scientific program, and most evenings were memorable for various reasons. On Tuesday, the Brewster Barn dinner provided a unique atmosphere, a “cowboy-style” dinner, entertaining music, and a degree of participation in the “country line-dancing” that can only be described as astonishing. The Wednesday dinner in the picturesque Victoria Room of the Fairmont Chateau Lake Louise was accompanied by a snowfall that was the “icing on the cake” as it coated the trees surrounding Lake Louise. The Thursday dinner marked the closing of TEMPMEKO.

Over the course of the 4 days of the conference, the participants delivered 138 oral and 107 poster presentations. The oral presentations occupied 36 sessions, with the majority of these taking place in three parallel streams. The posters were divided into two sessions; the first was held late Tuesday afternoon, and the second was early Thursday morning. Friday was reserved for meetings, most of them representing the various Working Groups of the International Committee of Weights and Measures’ Consultative Committee for Thermometry.

An exhibition of temperature and humidity measuring equipment from 14 companies (Advanced Cooling Technologies, Automatic Systems Laboratories, Electronic Development Labs, Fluke Corporation—Hart Scientific Division, Guildline Instruments, INSCO, Isotech North America, Measurements International Ltd., Pond Engineering, RH Systems, Rotronic, Thunder Scientific, Vanko Analytics Limited, and Veriteq Instruments Inc.) took place adjacent to the lecture rooms, and conference participants were encouraged to take the opportunity to view the exhibits and speak with the representatives in attendance. We are grateful for the exhibitors’ support of TEMPMEKO 2007, and wish to give special thanks to Fluke, Isotech, Measurements International Limited, and RH Systems for sponsoring various social events during the week. This allowed us to provide a much “richer” dining experience for the participants than would otherwise have been possible without significantly increasing the registration fee.

It is a pleasure to acknowledge the expertise and dedication of the many individuals who contributed to the successful organization of the Symposium and to the preparation of the Proceedings. Among those are the authors, the chairs of the sessions, the referees of the papers, and the associate editors, Stephanie Bell, Jürgen Hartmann, Greg Strouse, and Rod White. I acknowledge the support of the Institute for National Measurement Standards of the National Research Council of Canada and am indebted to many staff members of the Institute, with special thanks to Alan Steele (Director of Metrology and General Chair of the Symposium), Douglas Gee, Marcel Léger, Paul Piva, Don Woods, Elizabeth Lambe, Alexandra Shaw, and Jo-Anne Zahab. I am indebted to Francesco Righini, chair of IMEKO TC12, for his encouragement and support throughout the past 3 years; to Davor Zvizdic, organizer of TEMPMEKO 2001, who always knew what to say when I needed to hear it; to Duane Brown, the Exhibits Chair of TEMPMEKO 2007; and to Mickey Haynes for guiding me through the editorial process.

I hope that everyone enjoyed their time at Lake Louise, a true jewel in the midst of Canada's Rocky Mountains. Hosting TEMPMEKO 2007 was demanding work, but the positive comments that we received made the effort worthwhile. It was a privilege to showcase Canada (a small part of it) to the world, and I hope that many who attended will take the opportunity to return (<http://www.fairmont.com/lakelouise/>).