INTERNATIONAL GROUP FOR THE PSYCHOLOGY OF MATHEMATICS EDUCATION

Annual Meeting

SECOND ANNOUNCEMENT

July 13 – 18, 2003

Hawai‘i Convention Center

Honolulu, Hawai‘i

Co-Hosted by the

University of Hawai‘i-Manoa

and

Pacific Resources for Education and Learning
Aloha Colleagues,

It is our pleasure to invite you to participate in the 27th Annual Meeting of the International Group for the Psychology of Mathematics Education (PME27) held jointly with the 25th Annual Meeting of PME North America Chapter (PMENA25). The theme of the conference is “Navigating Between Theory and Practice.” Co-hosted by the University of Hawai‘i-Manoa (UHM) and Pacific Resources for Education and Learning (PREL), the conference will be held at the Hawai‘i Convention Center, Honolulu, Hawai‘i, from Sunday July 13 to Friday July 18 2003.

We wish you fond “Aloha” and look forward to welcoming you to Hawai‘i.

Mahalo and aloha,

Sandy Dawson

Sandy Dawson on behalf of the Local Organizing Committee

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**Spirit of Aloha**

- **A** is for Akahai, Hawaiian meaning kindness, to be expressed with a feeling of tenderness;
- **L** is for Lokahi, Hawaiian meaning unity, to be expressed with a feeling of harmony;
- **O** is for ‘Olu‘olu, Hawaiian meaning agreeable, to be expressed with a feeling of pleasantness;
- **H** is for Ha‘aha‘a, Hawaiian meaning humility, to be expressed with a feeling of modesty;
- **A** is for Ahonui, Hawaiian meaning patience, to be applied with perseverance.

“Aloha Spirit” is the coordination of mind and heart...

It’s within the individual,

It brings you down to yourself.

You must think and emote good feelings to others.

Pilahi Paki
CONTACT INFORMATION

Conference Secretariat

All communications concerning registration, hotel accommodation, change of plans, regarding the PME27 Conference should be sent to the Conference Secretariat at the following address:

EMAIL AND FAX ARE THE MOST EFFECTIVE AND EFFICIENT METHODS OF COMMUNICATION

PME27 Conference Secretariat
University of Hawai‘i Conference Center
2530 Dole Street, Sakamaki C-404
Honolulu, HI 96822
Tel: + 1-808-956-8204
Email: pme27@outreach.hawaii.edu
Fax: + 1-808-956-3364

Conference Website

www.hawaii.edu/pme27

Emergency Phone Numbers during the Conference

For after hours emergencies during the conference, the following people may be contacted for assistance:

Glen Schmitt: 1-808-722-8418 or 1-808-941-3572

Sandy Dawson: 1-808-946-6810 or 1-808-256-5587
THE INTERNATIONAL GROUP
FOR THE
PSYCHOLOGY OF MATHEMATICS EDUCATION (PME)

History and Aims of PME

PME came into existence at the Third International Congress on Mathematics Education (ICME3) held in Karlsruhe, Germany in 1976. Its past presidents have been Efraim Fischbein (Israel), Richard R. Skemp (UK), Gerard Vergnaud (France), Kevin F. Collis (Australia), Pearla Nesher (Israel), Nicolas Balacheff (France), Kathleen Hart (UK), Carolyn Kieran (Canada), Stephen Lerman (UK) and Gilah Leder (Australia).

The major goals of both PME and PMENA are:

- To promote international contacts and the exchange of scientific information in the psychology of mathematics education.
- To promote and stimulate interdisciplinary research in the aforesaid area with the co-operation of psychologists, mathematicians and mathematics educators.
- To further a deeper understanding into the psychological aspects of teaching and learning mathematics and the implications thereof.

PME Membership and Other Information

Membership is open to people involved in active research consistent with the Group’s goals, or professionally interested in the results of such research. Membership is on an annual basis and requires payment of the membership fees (US$40 or the equivalent in local currency) per year (January to December). For participants of PME27 Conference, the membership fee is included in the Conference Deposit. Others are requested to contact their Regional Contact, or the Executive Secretary (see page 4).

Website of PME

For more information about PME as an association see its home page at igpme.tripod.com or contact the Executive Secretary.

Honorary Members of PME

- Hans Freudenthal (The Netherlands, deceased)
- Efraim Fischbein (Israel, deceased)

Present Officers of PME

- President: Rina Hershkowitz (Israel)
- Vice-president: Luciana Bazzini (Italy)
- Secretary: Tad Watanabe (USA)
- Treasurer: Peter Sullivan (Australia)

Other members of the International Committee (IC)

Janete Bolite Frant (Brazil)  Masataka Koyama (Japan)
Anne Cockburn (UK)  Ricardo Nemirovsky (USA)
Jorge Tarcisio Da Rocha-Falcao (Brazil)  Andrea Peter-Koop (Germany)
A. J. (Sandy) Dawson (Canada)  Catherine Sackur (France)
Ruhama Even (Israel)  Haralambos Sakonides (Greece)
Anne-Berit Fuglestad (Norway)  Ron Tzur (USA)
Peter Gates (UK)
Executive Secretary

Joop van Dormolen (Israel)
Rehov Harofeh 48A/10
Haifa 34367, Israel
Phone: +972-4-8246239
Fax: +972-4-8258071
E-mail: joop@tx.technion.ac.il

Present Officers of PMENA

Dr. Joseph Zilliox, Chair (University of Hawai‘i)
Dr. Doug McDougall, Chair Elect (University of Toronto)
Dr. Denise S. Mewborn, Past Chair (University of Georgia)
Dr. Maria Trigueros, Membership Secretary (Instituto Tecnologico Autonomo de Mexico)
Dr. Anne Teppo, Treasurer (Montana State University)
Dr. Dorothy White (University of Georgia)
Dr. Skip Wilson (Virginia Tech)

PME27/PMENA25 Program Committee

Dr. A. J. (Sandy) Dawson (PREL), Chair
Dr. Barbara Dougherty (University of Hawai‘i)
Dr. Julie Kaomea (University of Hawai‘i)
Dr. Judy Olson (Western Illinois University)
Dr. Melfried Olson (Western Illinois University)
Dr. Neil Pateman (University of Hawai‘i)
Dr. Mary Pat Sjostrom (University of Hawai‘i)
Dr. Hannah Slovin (University of Hawai‘i)
Dr. Catherine Sophian, (University of Hawai‘i)
Dr. Judith Sowder (San Diego State University)
Dr. Joseph Zilliox (University of Hawai‘i)

and five members selected by the International Committee:

Dr. Rina Hershkowitz (President PME, Israel)
Dr. Janete Bolite Frant (Brazil)
Dr. Anne Berit Fuglestad (Norway)
Dr. Marit Johnsen Høines (Norway)
Dr. Masataka Koyama (Japan)

PME27/PMENA25 Local Organizing Committee

Dr. A. J. (Sandy) Dawson (PREL)
Dr. Barbara Dougherty (University of Hawai‘i)
Dr. Neil Pateman (University of Hawai‘i)
Dr. Joseph Zilliox (University of Hawai‘i)
Ms. Yvonne Yamashita (University of Hawai‘i)
Ms. Pam Ishii (University of Hawai‘i)
Mr. Glen Schmitt
Ms. Sandra Dawson
Ms. Margaret Camacho
Dr. Beth Pateman

‘Ohana Arrangements

Mr. Glen Schmitt
Ms. Sandra Dawson
Ms. Margaret Camacho
Dr. Beth Pateman

Volunteer Support

Ms. Sharlene Brunell
Ms. Geri Chee
Mr. Fred Chee
Ms. Maggie Augafa

Ms. Mor Bedor
Mr. Tulensru Waguk
Ms. Jane Iida
The scientific program includes the following activities:

**Plenary sessions**
- Plenary addresses
- Plenary panel

**Personal presentations**
- Research Forums (RF)
- Research Reports (RR)
- Short Oral Communications (SO)
- Poster presentations (P)

**Group activities**
- Workings Sessions (WS)
- Discussion Groups (DG)

The working language of the Conference is English. Papers for the proceedings are written and presented in English. However, colleagues, including the presenter, are welcome to contribute to discussions and questions following the presentation of a Research Report or a Short Oral Communication in their first language, provided that translation is possible by someone present in the session.

**Plenary Sessions**

The theme for the PME27 Conference is “Navigating Between Theory and Practice”. The plenary sessions will represent a variety of perspectives relevant to the PME community. There will be five invited plenary addresses and a plenary panel discussion. The plenary speakers and the plenary panel chair and members are noted below. Where available, the title is also provided.

- Nainoa Thompson, Polynesian Navigator and Educator (Polynesian Voyaging Society), Plenary Speaker
  - Title: Lessons of Learning & Texts of Teaching - the importance of understanding and capturing classroom practice.
- Dr. Jo Boaler, Stanford University (USA), Plenary Speaker
- Dr. Toshiakira Fujii, Tokyo Gakugei University (Japan), Plenary Speaker
  - Title: Probing students' understanding of variables through cognitive conflict: is the concept of a variable so difficult for students to understand?
- Dr. Nicolina Malara, University of Modena e Reggio (Italy), Plenary Speaker
  - Title: The Dialectics between Theory and Practice: Theoretical Issues and Practice Aspects from an Early Algebra Project.
- Dr. Barbara Dougherty & Dr. Joseph Zilliox, University of Hawai‘i (USA), Joint Plenary Speakers
  - Title: Voyaging from Theory to Practice in Teaching and Learning: A View from Hawai‘i
- Dr. Jarmila Novotná, Charles University in Prague (Czech Republic), Coordinator, Plenary Panel
  - Panelists: Agatha Lebethe (South Africa), Gershon Rosen (Israel), Vicki Zack (Canada)
  - Title: Teachers who navigate between their research and their practice

**Research Forums (RF)**

The goal of a Research Forum is to create dialogue and discussion, by offering PME members more elaborated presentations, reactions, and discussions on topics on which substantial research has been undertaken and which continue to hold the active interest of a large subgroup of PME. Two 90-minute slots will be devoted to each Research Forum. A Research Forum is not supposed to be a collection of presentations but to convey an overview of an area of research, its main current questions and perspectives.

For the PME27 Conference, the Program Committee and the International Committee selected the topics and coordinators of the Research Forum. Copies of Research Forum papers and pre-readings can be found on the conference website (www.hawaii.edu/pme27). The following Research Forums are being organized for PME27:
RF1 Perceptuo-Motor Activity and Imagination in Mathematics Learning
   Co-ordinators: Ricardo Nemirovsky (USA) & Marcelo Borba (Brazil)
   E-mail: ricardo_nemirovsky@terc.edu

RF2 Equity, Mathematics Learning and Technology
   Co-ordinators: Colleen Vale (Australia), Helen Forgasz (Australia), & Gilah Leder (Australia)
   E-mail: colleen.vale@vu.edu.au

Research Reports (RR)

Each Research Report is allotted a total time of 40 minutes: 20 minutes for the oral presentation and 20 minutes for discussion. Two types of papers are suitable for Research Reports: report of studies (observational, ethnographic, experimental, quasi-experimental, and case studies), and theoretical and philosophical essays. There are 176 research reports scheduled for presentation at PME27.

Short Oral Communications (SO)

Some research may more appropriately be communicated by means of a Short Oral Communication rather than by means of a full Research Report. Each communication is allotted a total time of 15 minutes: 10 minutes for the oral presentation and 5 minutes for questions or comments. When possible, the presentations are grouped by themes, and a discussion period of 15 minutes completes each group of presentations. There are 80 short orals scheduled for presentation at PME27.

Poster Presentations (P)

Poster Presentations are available for those whose work is more suitably communicated in a pictorial or graphical format, rather than through an oral presentation. There is no formal oral presentation associated with posters, although there will be a time allotted, after sufficient display time, during which presenters are available by their posters for informal discussion with conference participants. A poster may present research projects, software developments, curricular innovations, educational programs, etc., related to the Psychology of Mathematics Education. Approximately 86 posters may be displayed at PME27.

Pacific Island Scholars’ Posters

The Pacific Island Scholars, a group of 27 mathematics educators from across the western Pacific, have prepared specialized posters that depict their culture and issues relevant to mathematics education. The Pacific Island Scholars attendance at PME27 is financed through a grant from the National Science Foundation (0209393). Typically, the scholars are two college instructors and the mathematics specialist representing the nine Pacific island communities of American Samoa, the Republic of Palau, the Republic of the Marshall Islands (RMI), Guam, the Commonwealth of the Northern Mariana Islands (CNMI), and the Federated States of Micronesia (FSM) that includes the states of Yap, Chuuk, Pohnpei, and Kosrae. There are nine Pacific Island Posters in a special display area of the Convention Center.

Group Activities

The aim of the group activities is to achieve greater exchange of information and ideas related to the Psychology of Mathematics Education. There are two types of activities:

- Workings Sessions (WS)
- Discussion Groups (DG)

All types of groups are allotted the same amount of time for sessions during the conference: two 90-minute slots.
Working Sessions (WS)

This group activity has the aim to ensure that PME participants engage collaboratively in a joint activity. Each Working Session should be consistent with the aims of PME and ensure maximum involvement for participants. The sessions are designed to be hands-on experiences and activities. A brief description of the Working Sessions appears in the May PME News. The following working sessions are scheduled for PME27:

WS1  Embodiment in mathematics: metaphor and gesture  
      Laurie Edwards (USA), Janete Bolite Frant (Brazil) and Stephen R. Campbell (Canada)

WS2  Exploring alternative interpretations of classroom data  
      Coordinators: Chris Breen (South Africa) and Markku Hannula (Finland)

WS3  Models and modeling working session  
      Coordinators: Richard Lesh (USA), Guadalupe Carmona, Helen Doer (USA), Lyn English (Australia), Margret Hjalmarson (USA), Susan Lamon (USA), Richard Lehrer (USA), Thomas Post (USA), Judith Zawojewski

WS4  Researching the teaching and learning of mathematics in multilingual classrooms  
      Coordinators: Richard Barwell (UK), Anjum Halai (Pakistan), Mamokgethi Setati (South Africa)

WS5  Symbolic cognition in advanced mathematics  
      Coordinators: Stephen J. Hegedus (USA), David O. Tall (UK), Ted Eisenberg (Israel), and Gary Davis (Australia)

WS6  The complexity of learning to reason probabilistically  
      Coordinators: Hollylynne Stohl (USA) and James E. Tarr (USA)

WS7  The design and uses of curriculum materials  
      Coordinators: Yeping Li (USA) and Karen Fuson (USA)

WS8  The role of syntax and technology in the development of algebraic reasoning in the early grades (K-8)  
      Coordinators: John Olive (USA), Maria Blanton (USA), and Jim Kaput (USA)

WS9  Understanding learning through teaching in the mathematics classroom  
      Coordinators: Anne Cockburn (UK) and Fran Lopez-Real (UK)

WS10 Videopapers: an emerging way to publish and conduct research and classroom analysis  
      Coordinators: Daniel Cogan-Drew and Ricardo Nemerovsky (USA)
Discussion Groups (DG)

The objective of a Discussion Group is to provide the opportunity for people to work constructively together. They may begin with short synopses of research work, or five to ten pressing questions, or provocative prompts (such as a short video clip), which aim to elicit engagement on the part of all the participants. The main purpose is critical discussion. The group activities should not be a series of short oral presentations by a number of researchers. A brief description of the Discussion Groups appears in the May PME News. The following Discussion Groups are scheduled for PME27.

DG1 Examining theses
   Co-ordinators: Helen Forgasz (Australia) and Kathleen Hart (UK)
   (A continuation from PME26)

DG2 Facilitating conceptual change in mathematics
   Co-ordinators: Erkki Pehkonen (Finland), Kaarina Merenluoto (Finland), and Marianna Tzekaki (Greece)
   (A continuation from PME26)

DG3 Fostering the mathematical thinking of young children: Pre-K-2
   Coordinators: Robert P. Hunting (USA) and Catherine A. Pearn (Australia)

DG4 Integrated mathematics and science: Setting a research agenda
   Coordinators: Karen Marrongelle (USA) and Brian Keller (USA)

DG5 Integrating equity and complex social problems in mathematics teacher education
   Coordinators: Vilma Mesa (Columbia) and Shari Saunders (USA)

DG6 Research on gender and mathematics from multiple perspectives
   Coordinators: Joanne Becker (USA) and Ferdinand Rivera (USA)

DG7 Semiotic and socio-cultural evolution of mathematical concepts
   Coordinators: Adalira Saenz-Ludlow (USA) and Norma Presmeg (USA)

DG8 Stochastical thinking, learning and teaching
   Co-ordinators: Michael Shaughnessy (USA) and Jane Watson (Australia)
   (A continuation from PME26)

DG9 The messy work of studying professional development: the conversation continues
   Coordinators: Catherine A. Brown (USA), Rebecca McGraw (USA), and Fran Arbaugh (USA)

DG10 The rise and fall of mathematics education research
   Coordinator: Anne Teppo (USA) and Carole LaCampagne (USA)

DG11 The role of mathematics education in social exclusion: reviewing the interface between psychological and sociological research paradigms.
   Coordinators: Peter Gates (UK), Tansy Hardy (UK), Robyn Zevenbergen (Australia), Mike Askew (UK), Stephen Lerman (UK)
Call for Research Forums  
PME28 (2004)  
Bergen, Norway

The goal of a Research Forum is to create dialogue and discussion, by offering PME members elaborated presentations, reactions, and discussions about topics on which substantial research has been undertaken and which continue to hold the active interest of a large subgroup of PME. A Research Forum is not supposed to be a collection of presentations but to convey an overview of an area of research, its main questions and perspectives. Two 90-minute slots are devoted to each Research Forum.

A Research Forum should:

• Focus on a topic that is of substantial interest within the work of PME
• Stimulate critical dialogue around this topic through the consideration of multiple perspectives
• Have a coherent structure to encourage intellectual debate
• Involve planned input to this critical dialogue from at least five researchers
• Include structural opportunities for interaction by the audience, and avoid the need for long presentations through the use of well-advertised prior readings

Research Forum proposals must be submitted more than a year in advance so that the International Committee can review it during their regular meeting at each PME conference; this review has to occur the year previous to the conference where the research forum, if approved, will take place. A detailed timeline appears below.

A Research Forum proposal must include the following sections:

1. A General Heading including the following information:

   • Title of the Research Forum
   • Name of the coordinator(s)
   • Names of the contributors and their roles

2. A General Framework section, describing briefly the field of research in mathematics education that the forum will focus on, the field’s main issues, findings and problems, including the theoretical and/or philosophical framework adopted for this Research Forum.

3. The goals, key questions, themes and focus of this Research Forum, the main strands of ideas that the coordinators identify in the theme chosen for the research forum and how the participants see themselves in relation to them. Some highlights on further work and research on the topic should be given.

4. The proposal must provide a description of the session dynamics including timing and plans for (reasonable) advanced reading and for audience interaction. The proposal should explicate how the forum is going to be more than a collection of papers to offer a critical overview of a field of research, and how the forum is to be organized so that the audience will have opportunities to participate and contribute.

5. How the space in the Proceedings will be structured and used (up to 30 pages).

6. It is the coordinators’ responsibility to ensure that Research Forum contributors adhere to the topic of the Forum. This applies to both the papers and the presentations.

The Research Forum review process for the 2004 PME28 conference Bergen includes the following steps:

• May 31, Year 2003: Proposal Submissions should be sent to the Executive Secretary of PME (see page 3)—Not to the Conference Secretariat—for review by the IC at its annual meeting in July 2003.
• August 15, 2003: Tentative approval or rejection by the International Committee, including requests for changes and improvements (it will be sent in writing to the coordinators and to the Program Committee Chair by the IC secretary).
• January 15, 2004: Revised Proposal Submission to the Program Committee together with a letter outlining how the coordinators addressed the requests formulated by the International Committee.
A few years ago, the IC decided to implement a mechanism to encourage and support inexperienced researchers by offering them the possibility of an Early Bird Procedure for submitting a Research Report. Inexperienced researchers who do not have access to appropriate local support and would like to receive guidance from experienced PME researchers can submit their paper to the Early Bird co-ordinator. The co-ordinator will assign the paper to an appropriate mentor and make sure that the communication between the inexperienced researcher and the mentor flows satisfactorily. Please note that this procedure is meant to be a feedback to written reports. It is not meant as a support for conducting research.

The papers submitted should be accompanied by a statement in which the authors declare that they are researchers with little previous experience in writing research reports (or journal articles) and have limited access to experienced advice. The mentors will correspond with the authors and will guide them in strengthening their papers. In order to ensure a process, which will be beneficial to authors, proposals should be submitted to the co-ordinator at least six months before the deadline for submission of a Research Report (January of the year of the upcoming conference). The timeframe will allow for the search for an appropriate mentor, and will enable the process to be meaningful. In any case, this mentoring would not guarantee acceptance, as the papers will still undergo the regular PME reviewing procedures. People who wish to have a mentor to submit a Research Report for the PME28 Conference in 2004 should contact the co-ordinator before August 31, 2003.

The Early Bird co-ordinator for the PME27 and PME28 Conference is: Norma Presmeg.

Contact Information:

Dr. Norma Presmeg  
Illinois State University,  
Mathematics Department,  
2811 Polo Road, Bloomington, IL  
USA 61704-8158,  
E-mail: npresmeg@ilstu.edu  
Fax: +1 309 438 5866.

Potential Papers for  
Special Contributions and Special Issues for Special Issues  
of Educational Studies in Mathematics

During the Research Report review process for PME27, reviewers were asked to advise if a paper has sufficient potential to be expanded for possible inclusion in ESM journal highlighting PME research. The IC is exploring the possibility of submitting PME proposals for contributions in addition to proposals for a special issue of ESM highlighting PME research based at least in part on research reports identified this year. There were 17 such papers identified.
PME27 Conference
General Information

PME International Conference Fee

The Registration Fee is **US$450**.

The registration fee will cover:
1) PME membership fee US$40 for 2003
2) A set of Conference Proceedings, available at the Hawai‘i Convention Center PME registration desk, or by mail
3) Lunch during four of the conference days at the Hawai‘i Convention Center
4) Nutrition time-outs each conference day at the Hawai‘i Convention Center
5) Opening reception after the opening plenary (Sunday afternoon/evening)
6) Tuesday afternoon and evening excursion to the Polynesian Cultural Center (PCC) that includes experiences of various Polynesian cultures, a Hawaiian lu‘au (dinner), and evening show of cultural dancing, as well as an escorted bus ride across O‘ahu to the PCC
7) Thursday evening dinner and dance at the Sheraton Waikiki Hotel (see map on page 17)
8) Costs of venue, administrative work and facilities needed for organization of the conference.

PME North America (PMENA) Registration Fee

PMENA membership is open on an annual basis. Dues are $20 and may be paid along with your conference registration fee (see page 18). If you are unable to attend the conference but want to join or renew your PME-NA membership, membership forms are available at [http://www.pmena.org/](http://www.pmena.org/). PMENA Membership Dues for fulltime graduate students are usually $10, but this year the fee for **graduate students attending PME27** is waived.

The PME27 ‘Ohana (In Hawaiian ‘Ohana means ‘extended’ family)

The PME27 ‘Ohana includes the accompanying adult partners and children of conference participants. The fee for accompanying adult partners of participants is US$170 per person. This fee will cover items 5, 6, 7 and (part of) 8 listed above. The fee for accompanying children (ages 6 - 16) is US$70. The children’s fee will cover items 5, 6 and (part of) 8 above. Payment for accompanying persons will be required when participants submit their conference payment.

Plans are being made to provide a program of activities for the PME27 ‘Ohana—adults and children. Costs for these activities will be in addition to the accompanying person fees. Details are provided on page 13. To take part in these activities the ‘Ohana accompanying persons must make sure to drop their associated conference participant at the Convention Center prior to heading off for a day of fun and excitement on the island of O‘ahu.

Conference Secretariat

Communication concerning the PME27 Conference should be sent to the Conference Secretariat at the following address:

PME27 Conference Secretariat
University of Hawai‘i Conference Center
2530 Dole Street, Sakamaki C-404
Honolulu, HI 96822
Tel: + 1-808-956-8204
Email: pme27@outreach.hawaii.edu
Fax: + 1-808-956-3364
Conference Website

The PME27 conference has a web site www.hawaii.edu/pme27 where you can get updated information about the conference. This Second Announcement (including forms) is also on this web site.

Conference Dates

Registration Desk: Opens **Sunday July 13 2003, noon to 4:00**, in the ground floor of the Hawai‘i Convention Center. Conference bags, nametags, and Proceedings can be collected from the Registration Desk. The registration desk will be open as well on Monday, July 14, 7:00-3:00.

Accommodation: The hotel check-in time is 3 p.m.

Opening session: **Sunday afternoon July 13th, 2003** at 5 p.m. at Kawaiaha‘o Church with reception to follow.

Maps will be available at the registration desk and hotels showing the location of the Convention Center and the Church.

Conference Registration

Please submit the Conference registration and payment forms (pages 18-19) to the Conference Secretariat (Page 2) by **May 31, 2003**. The Conference Fee is **$450.00**. Within both forms, your registration will not be processed.

Payment Form

For payments, the Payment Form (page 19) must be used. Payments must be made in **US dollars**. Payment may be made by credit card (MasterCard, Visa), check, or money order. If none of these methods is possible, please contact the Conference Secretariat (Page 2).

Late Registration

Participants of the Conference who have not sent the full Conference Registration Fee by **May 31, 2003** will be charged an additional US$50.

Cancellation Policy

All cancellations and changes regarding the **Conference Registration and Hotel Accommodation** must be done in writing (email, fax, or regular mail) to the **Conference Secretariat (Page 2)** no later than July 3, 2003.

Cancellation of Registration

If a cancellation is made after the full Registration Fee has been paid, but before June 15, 2003, the refund will be the amount paid minus both the Conference Deposit and a Handling Fee (US$125 in total). If the cancellation is done after June 15, 2003 but before July 4, then only 50% of the full Registration Fee will be refunded. There is no refund after July 3, 2003.
Social Activities

Opening Reception—Sunday, July 13

The Opening Reception takes place in the hall adjoining the Kawaiaha‘o Church in historic downtown Honolulu. The Church dates to 1842 and contains pictorial records of the Royal families of Hawai‘i. Renowned Hawaiian explorer and educator, Nainoa Thompson, who is chief navigator for the ocean-going sailing canoe, the Ho‘okele, will be the opening keynote speaker for our Conference.

Conference Excursion—Tuesday, July 15

Buses for the excursion will depart from the front of the Convention Center at 12:30 pm. All registered participants, accompanying partners and children will spend Tuesday afternoon and evening at the Polynesian Cultural Center (PCC). The PCC excursion includes experiences of various Polynesian cultures, a Hawaiian lu‘au (dinner), and an evening show of cultural dancing.

Conference Dinner/Dance—Thursday, July 17

On Thursday evening at the Sheraton Waikiki Hotel on the shores of Waikiki, conference registrants and accompanying partners will experience a sunset dinner on the grass courtyard of the Sheraton Hotel. Later in the evening, Tino and the Rhythm Klub will provide us with lively music to get our feet moving and our bodies gliding around the dance floor.

Program for Accompanying Partners and Children

Roberts Hawai‘i will have a desk in the lobby of the Convention Center. Accompanying persons may sign up for various tours on O‘ahu as well as to neighboring islands. A brochure outlining some of their attractions is available on the website (www.hawaii.edu/pme27). These excursions are optional and available at extra cost. The following are specially arranged for PME accompanying partners and children.

Monday, July 14

Pearl Harbor/ Arizona Memorial/City Tour: Visit Pearl Harbor, the Arizona Memorial, a guided tour of the Mighty Mo (the battleship Missouri on which the Japan/American truce was signed in 1945), a drive through Punchbowl, the National Cemetery of the Pacific, and a tour of historic downtown Honolulu. Participants must sign up for this excursion at the Roberts Hawai‘i desk at the Convention Center on Sunday, July 13.

Tuesday, July 15

The Conference Excursion to the Polynesian Cultural Center includes registered accompanying persons.

Wednesday, July 16

Take the #22 Bus ($1.50 each way) to Hanauma Bay or just stay in Waikiki for a leisurely day of snorkelling and beach time at some of O‘ahu’s outstanding beaches. After a day on the beach, enjoy a Sunset Dinner Cruise off the shores of Waikiki. Appreciate the beauty of Honolulu and the beauty of Waikiki beach from the decks of the Ali‘i Kai Catamaran. Choose between a casual buffet dinner and a more formal dining experience.

Thursday, July 17

O‘ahu Grand Circle Island Tour: Explore the wonders and beauty that makes this island so special. From the lush, green mountains to the crystal, clear blue waters, and across the fertile central plain, you will experience the diversity of O‘ahu on this 120-mile tour. Scenic points include Diamond Head, Hanauma Bay, Mormon Temple, North Shore surfing beaches and many more.
Travel to Hawai‘i

More than six million visitors come to Hawai‘i every year, and nearly 15 million pass through Honolulu on their way to points in Asia and the U.S. Few cities can match Honolulu's transportation infrastructure. When it comes to moving people, the city’s ground transportation capability is second to none. Sixteen international airlines service Honolulu International Airport. Two domestic airlines also serve regular scheduled inter-island flights between the neighboring islands with more than 3,000 flights per week. American Airlines is the official conference airline. All bookings made for travel from July 6 to July 25 made through the official American Airlines booking code (A0473AAA) will receive 10% discount on applicable fares. If the reservation is made at least 30 days before departure, an additional discount of 5% will be applied.

Arrival in Hawai‘i

From the airport to the Waikiki Hotels takes approximately 20-30 minutes. Shuttle service to Waikiki is US$14-$16. Abundant taxi service is available around the clock for approximately US$25-$30. Oahu’s TheBus (US$1.50 to Waikiki) is rated as one of the best public bus transportation systems in the United States. Take bus #19 or #20 to Waikiki.

Visas

You may need a visa to enter the USA. To determine whether you need a visa, we advise you to contact the United States Embassy or diplomatic representative in your country. For prospective participants who live in countries that do not have diplomatic relations with the USA, there may be a way to issue a special entrance visa, separated from your passport, for attending a scientific conference in the USA. For instructions on how to obtain such a visa, please contact Sandy Dawson, Program Chair (dawsons@prel.org) at once as this procedure may take some time.

Insurance

The organizers cannot be held responsible for any losses, damages or injuries. It is recommended that participants arrange insurance against medical expenses, loss and accidents occurring during the conference.

Pre- and Post-Conference Tours

Information regarding travelling in Hawai‘i before and/or after the conference will appear on the PME27 website. Roberts Hawai‘i www.robertsovernighters.com is the local travel agent that can arrange pre- and post-conference trips on O‘ahu and neighbor islands. Participants should identify themselves as PME27 attendees when contacting Roberts Hawai‘i.

Child Care Facilities

Hotels do provide children’s programs. Contact your hotel for the cost of these.

Weather

Weather on all of the Hawaiian Islands is very consistent, with only moderate changes in temperature throughout the year. In practical terms, there are only two seasons here: the summer months (called Kau in Hawaiian) that extend from May to October and the winter months (Ho‘ollo) that run from November to April. The average daytime summer temperature at sea level is 85°F (29.4°C). Nighttime temperatures are approximately 10°F lower.

Beach-goers will be happy to learn that the temperature of Hawai‘i’s near-shore waters stay comfortable throughout the year. The average year round water temperature is 74°F (23.3°C), with a summer high of 80°F (26.7°C). Wave action varies a great deal between winter and summer, and between island coasts. Generally, summer waters are very gentle on all beaches.
Dress

*Casual* is the name of the dress code for Hawai‘i. Formal Hawaiian dress for men is an aloha shirt and slacks. For women it is a comfortable top and skirt or wrap around. Sandals are the shoes of choice.

Electrical Voltage

The electric voltage in the USA is 120V. For those participants not from continental North America it is strongly recommended that they bring electrical plug adapters and transformers with them.

Information Sources for PME27

In order to allow faster and safer communication between the conference participants and the organizers, email is the preferred way of communication whenever possible (see the Conference Secretariat’s address on Page 2). PME27 Conference has a website ([www.hawaii.edu/pme27](http://www.hawaii.edu/pme27)) where you can get updated relevant information, such as the registration and accommodation packages.

Extra Copies of the Conference Proceedings

PME members (in 2003) may purchase (extra) copies of the Conference Proceedings at a special price of **US$45** provided they order and pay for them before **May 31, 2003**. This may be done by participants wishing to have additional copies or by PME members who cannot attend the PME27 Conference. The regular price for a copy of the Conference Proceedings for non-members is **US$65. Those wishing to receive the proceedings by mail should add US$35 postage cost to the above price of the proceedings.** The proceedings will be mailed after the end of the PME27 Conference. Please note that the surface mail to destinations other than the US mainland might take several weeks, or even months. We strongly encourage you to pick your extra copies up at the conference either personally or by asking a colleague to do it.

Letters of Invitation

Participants who need a personal invitation for funding purposes should contact Sandy Dawson, Program Chair ([dawsoms@prel.org](mailto:dawsoms@prel.org)) requesting a letter of invitation and stating their intended contribution to the scientific Program of the PME27 Conference.

Alternate Meal Preferences

Please indicate on the Conference Payment form (page 19) if you prefer vegetarian or kosher meals.

Call for Donations to Skemp Fund

The International Committee calls on members to make donations, however small, to the Skemp Fund to enable PME to support more people to attend PME27 Conference. Donations may be noted on the Conference Final Registration Form (see page 18).

Emergency Phone Numbers

For after hours emergencies during the conference, the following people may be contacted for assistance:

Glen Schmitt: 808-722-8418 or 808-941-3572

Sandy Dawson: 808-946-6810 or 808-256-5587
Accommodation Information

The PME27 conference takes place at the Hawai‘i Convention Center. The four Outrigger ‘Ohana Hotels are located in the renowned Waikiki area of Honolulu. The ‘Ohana Maile Sky Court Hotel is the hotel closest to the Convention Center, a short ten-minute walk away. The other three hotels are each approximately a 20-minute walk from the Convention Center. Many rooms in the ‘Ohana West Hotel have kitchenettes. All hotel rooms are air-conditioned and come complete with

- ensuite bathroom
- TV set
- mini-refrigerator
- telephone, many with data port connections
- coffeemakers

Breakfast is NOT included.

Rooms are single or double occupancy. For more than two adults (18 years or older) in a room, there will be an additional charge of US$25, plus tax. Children under 18 may stay free in their parents’ room when using existing bedding. The maximum number of persons per room is three (3) adults, or two (2) adults and two (2) children.

If you would like to share a hotel room with someone, please state your roommate’s name on the Accommodation Reservation Form (page 20). If possible, submit your own and your roommates forms together.

If you do not have a roommate, but wish to share a room, please indicate that on the form (page 20), and a roommate will be assigned to you.

A credit card guarantee of **two nights’ deposit** is required. No accommodation requests will be processed without this deposit.

Room tax (11.416%) is included in the listed price for hotel accommodations.

<table>
<thead>
<tr>
<th>Hotels (Single/Double accommodation)</th>
<th># on map on page 17</th>
<th># of rooms</th>
<th>Cost per room per night including taxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘Ohana West Hotel</td>
<td>#43</td>
<td>125</td>
<td>US$66.85</td>
</tr>
<tr>
<td>‘Ohana Maile Sky Court Hotel</td>
<td>#14</td>
<td>75</td>
<td>US$66.85</td>
</tr>
<tr>
<td>‘Ohana East Hotel</td>
<td>#44</td>
<td>75</td>
<td>US$90.25</td>
</tr>
<tr>
<td>Outrigger Waikiki on the Beach Hotel</td>
<td>#47</td>
<td>25</td>
<td>US$191.65</td>
</tr>
</tbody>
</table>

Check-in time is 3:00 p.m.

Guests arriving prior to check-in shall be accommodated as rooms become available. The Hotel shall accommodate late checkouts, subject to availability.

Checkout time is 12:00 noon.

See the **map on page 17** for the locations of the hotels.
CONFERENCE FINAL REGISTRATION FORM
For PME27 Conference, July 13 – 18, 2003

<table>
<thead>
<tr>
<th>Family Name:</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
</tr>
<tr>
<td>Circle One: Female</td>
</tr>
<tr>
<td>Male</td>
</tr>
<tr>
<td>Country of Citizenship: (for your nametag)</td>
</tr>
<tr>
<td>University/ Institute:</td>
</tr>
<tr>
<td>Department/ Faculty:</td>
</tr>
<tr>
<td>Home/ Office address (circle one):</td>
</tr>
<tr>
<td>Street and number:</td>
</tr>
<tr>
<td>City:</td>
</tr>
<tr>
<td>Postal or ZIP code:</td>
</tr>
<tr>
<td>Country:</td>
</tr>
<tr>
<td>Office Telephone no. (including country and area code):</td>
</tr>
<tr>
<td>Home Telephone no. (including country and area code):</td>
</tr>
<tr>
<td>Fax no. (including country and area code):</td>
</tr>
<tr>
<td>Email:</td>
</tr>
<tr>
<td>Name(s) of accompanying person(s) (An accompanying person is a member of the PME27 'Ohana who will take part in some (children) or all (adults) of the social events of the conference):</td>
</tr>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
</tbody>
</table>

Please check the applicable boxes and fill in the appropriate amounts

<table>
<thead>
<tr>
<th></th>
<th>US$</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ I plan to attend the PME27 Conference and have paid the deposit of $100.00—enter $350.00 in the column to the right</td>
<td></td>
</tr>
<tr>
<td>□ I plan to attend the PME27 CONFERENCE, have not paid the Conference deposit fee of $100.00, and enclose the Conference Registration Fee of $450.00—enter $450.00 in the column to the right</td>
<td></td>
</tr>
<tr>
<td>□ I wish to continue/apply for membership in PMENA and enclose the US$20 membership fee. Enter $20.00 in the column to the right. If you are a graduate student attending PME27, your PMENA fee is waived.</td>
<td></td>
</tr>
<tr>
<td>□ I plan to stay in a CONFERENCE HOTEL (complete and submit pages 19 &amp; 20 along with this form).</td>
<td></td>
</tr>
<tr>
<td>□ I will make my own accommodation arrangements.</td>
<td></td>
</tr>
<tr>
<td>□ I wish to register _____ accompanying adults @ US$ 170. Enter the appropriate amount</td>
<td></td>
</tr>
<tr>
<td>□ I wish to register _____ accompanying children @ US$ 70. Enter the appropriate amount</td>
<td></td>
</tr>
<tr>
<td>□ I will not attend the PME27 CONFERENCE, but I include the 2003 PME membership fee of US$40</td>
<td></td>
</tr>
<tr>
<td>□ I am a 2003 PME member, but not a conference participant, and wish to receive the PME27 proceedings at the special price of US$45 (available only if paid before May 31, 2003) delivered in the following way: [Provide name of who will pick up proceedings if that is option chosen]</td>
<td></td>
</tr>
<tr>
<td>□ Picked up at the conference by (______________<em><strong>) [</strong></em> copies] x US$45</td>
<td></td>
</tr>
<tr>
<td>□ By mail: [____ copies] x US$80 (US$45 plus postage US$35)</td>
<td></td>
</tr>
<tr>
<td>□ I am not a 2003 PME member, but I wish to receive the proceedings at the regular price of US$65, in the following way: [Provide name of who will pick up proceedings if that is option chosen]</td>
<td></td>
</tr>
<tr>
<td>□ Picked up at the conference by (______________<em><strong>) [</strong></em> copies] x US$65</td>
<td></td>
</tr>
<tr>
<td>□ By mail: [____ copies] x US$100 (US$65 plus postage US$35)</td>
<td></td>
</tr>
<tr>
<td>□ Donation for Richard Skemp Support Fund (the suggested donation is $15.00)</td>
<td></td>
</tr>
<tr>
<td>TOTAL US$</td>
<td></td>
</tr>
</tbody>
</table>
PAYMENT FORM
PME27 Conference, July 13 – 18, 2003

For Membership, Conference Deposit, and if applicable, Hotel Deposit

Name (Family, First):

<table>
<thead>
<tr>
<th>Payment by Credit Cards  (MasterCard, Visa Card):</th>
</tr>
</thead>
<tbody>
<tr>
<td>I authorize UHCC to charge my credit card (Circle one) MasterCard Visa Card</td>
</tr>
<tr>
<td>My credit card number is: _________________________________________</td>
</tr>
<tr>
<td>Name (exactly as it appears on the card):</td>
</tr>
<tr>
<td>Expiration date (Month/Year):</td>
</tr>
<tr>
<td>Amount US$:</td>
</tr>
<tr>
<td>Signature:</td>
</tr>
<tr>
<td>Date:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Payment by Checks or Money Order (in US dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make check or money order payable to UNIVERSITY of HAWAIʻI.</td>
</tr>
<tr>
<td>Enclosed please find check/money order #_____________ in the amount of US$.........................</td>
</tr>
<tr>
<td>If writing a check for the hotel guarantee, WRITE A SEPARATE CHECK IN THAT AMOUNT payable to OUTRIGGER HOTELS INC.</td>
</tr>
</tbody>
</table>

Please contact the Conference Secretariat (page 2) if you cannot pay by credit card or by check.

-------------------------------------------------------------------------------------------------------------------------------------------

DEADLINE: This Payment Form, the Conference Final Registration Form (see previous page), and the payment itself (whatever form of payment you decide to use) must be in the hands of the Conference Secretariat (Page 2) no later than May 31, 2003.

**Special Dietary Requests**—Please check if you desire: ☐vegetarian meals ☐kasher meals

Please indicate here your session preferences: (see pages 7 & 8 of the 2nd Announcement)

- Insert number of **Research Forum** (RF1 or RF 2)
- Insert number of **Discussion Group** (one from DG1 to DG11)
- Insert number of **Working Session** (one from WS1 to WS10)

Please see page 13 of the 2nd Announcement

Will you come to the **Opening Reception** (Yes or No)? ☐YES ☐NO
 ACCOMMODATION RESERVATION FORM  
For PME27 Conference, July 13 – 18, 2003
[If you completed this form when pre-registering, do not fill in again]

Name (Family, First):

Circle One: Female    Male

University/ Institute: 
Department/ Faculty: 

Street and number:
City:
Postal or ZIP code:
Country:

Office Telephone no. (including country and area code):
Fax no. (including country and area code):
Email:

Please, remember that the cost of the accommodation is not included in the Conference Final Registration Fee. The rooms will be assigned according to the order of receipt of both the Conference Registration Form and a credit card guarantee equivalent to two nights accommodation. Please indicate in the table below your preferences (1, 2, & 3) for the hotels indicated.

<table>
<thead>
<tr>
<th>Hotels (Single/double accommodation)</th>
<th># on map on Page 17</th>
<th># of rooms</th>
<th>Cost per night per room</th>
<th>Preference (1, 2, 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>‘Ohana West Hotel</td>
<td>#43</td>
<td>125</td>
<td>US$66.85</td>
<td></td>
</tr>
<tr>
<td>‘Ohana Male Sky Court Hotel</td>
<td>Near #4</td>
<td>75</td>
<td>US$66.85</td>
<td></td>
</tr>
<tr>
<td>‘Ohana East Hotel</td>
<td>#44</td>
<td>75</td>
<td>US$90.25</td>
<td></td>
</tr>
<tr>
<td>Outrigger Waikiki on the Beach Hotel</td>
<td>#47</td>
<td>25</td>
<td>US$191.65</td>
<td></td>
</tr>
</tbody>
</table>

☐ Please assign me a roommate
☐ I would like to share a room with: .......................................................... ..........................................................

I want a non-smoking room ☐ Yes ☐ No
I prefer a room with a kitchenette ☐ Yes ☐ No

Conference organizers are not responsible for finding roommates for pre and post conference accommodations. If you wish to arrive early or to stay late, please indicate below the extra dates you wish to book in your hotel. Please indicate EXTRA NIGHTS BELOW by checking the selected dates

July 10 ☐    July 11 ☐    July 12 ☐    July 18 ☐    July 19 ☐    July 20 ☐

Payment

☐ I wish to register in the hotel of my choice indicated and understand that my credit card will be charged the following amount (2 x rate at hotel chosen). If paying by check, make the check payable to Outrigger Hotel Inc. in the amount indicated.

I authorize Outrigger Hotels to charge my credit card (circle one) MasterCard, Visa Card, American Express, Diners, Discover
My credit card number is:

<table>
<thead>
<tr>
<th>Amount US$</th>
<th>Expiration date (Month/Year):</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Signature:</td>
</tr>
<tr>
<td></td>
<td>Date:</td>
</tr>
</tbody>
</table>

Cancellation policy

All cancellations and changes must be done in writing (email, fax, or regular mail). See page10 for relevant policy.
<table>
<thead>
<tr>
<th>Sun-July 13</th>
<th>Mon-July 14</th>
<th>Tue-July 15</th>
<th>Wed-July 16</th>
<th>Thur-July 17</th>
<th>Fri-July 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td></td>
<td></td>
<td>Working Session II</td>
<td>Research Forum II</td>
<td>Discussion Group II</td>
</tr>
<tr>
<td>8:30</td>
<td>Working Session I</td>
<td>Discussion Groups I</td>
<td>Meet with Plenary Speakers</td>
<td>Plenary Panel &amp; Speaker</td>
<td></td>
</tr>
<tr>
<td>9:30</td>
<td>Refreshments</td>
<td>Refreshments</td>
<td>Refreshments</td>
<td>Refreshments</td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>Boaler Plenary</td>
<td>Dougherty/Zilliox Plenary</td>
<td>Novotná Plenary Panel</td>
<td>Malara Plenary</td>
<td>Fujii Plenary</td>
</tr>
<tr>
<td>11:00</td>
<td>Cultural Presentation</td>
<td>Cultural Presentation</td>
<td>Plenary Forum II</td>
<td>Discussion Group II</td>
<td>Meet with Plenary Panel &amp; Speaker</td>
</tr>
<tr>
<td>11:30</td>
<td>Break</td>
<td>Break</td>
<td>Break</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>11:35</td>
<td>Research Reports 1</td>
<td>Research Reports 3</td>
<td>Research Reports 4</td>
<td>Posters</td>
<td>Research Reports 11</td>
</tr>
<tr>
<td>12:15</td>
<td>Conference Lunch</td>
<td>Lunch on the buses</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Conference Closing</td>
</tr>
<tr>
<td></td>
<td>Registration Research Reports 2</td>
<td>Excursion</td>
<td>Research Reports 5</td>
<td>Research Reports 8</td>
<td></td>
</tr>
<tr>
<td>13:05</td>
<td>Noon-15:55 Break</td>
<td>Excursion</td>
<td>Break</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>13:50</td>
<td>Short Oral Reports I</td>
<td>Excursion</td>
<td>Posters</td>
<td>Short Oral Reports II</td>
<td></td>
</tr>
<tr>
<td>14:50</td>
<td>Convention Center Refreshments</td>
<td>Excursion</td>
<td>Refreshments</td>
<td>Refreshments</td>
<td></td>
</tr>
<tr>
<td>15:10</td>
<td>Excursion</td>
<td>Research Reports 6</td>
<td>Research Reports 7</td>
<td>Research Reports 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Convention Center Research Forum I</td>
<td></td>
<td>PME-AGM</td>
<td>PMENA-AGM</td>
<td></td>
</tr>
<tr>
<td>15:50</td>
<td>Break</td>
<td>Break</td>
<td>Break</td>
<td>Break</td>
<td></td>
</tr>
<tr>
<td>16:35</td>
<td>Excursion</td>
<td>Research Reports 7</td>
<td>Research Reports 8</td>
<td>Research Reports 10</td>
<td></td>
</tr>
<tr>
<td>16:40</td>
<td></td>
<td></td>
<td>PME-AGM</td>
<td>PMENA-AGM</td>
<td></td>
</tr>
<tr>
<td>17:00</td>
<td>Cultural Presentation and Conference Opening</td>
<td>Excursion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:30</td>
<td>Excursion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18:00</td>
<td>Thompson Plenary</td>
<td>Excursion</td>
<td></td>
<td></td>
<td>Conference Banquet</td>
</tr>
<tr>
<td>18:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19:00</td>
<td>Opening Reception</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>