PROGRAM PLANNING COMMITTEE

CO-CHAIRPERSONS

Carlos A. Perez
Willis J. Taylor

COMMITTEE MEMBERS

Joan M. C. Bull  George M. Hahn
William C. Dewey  Joseph P. Lowenthal
Saul B. Gusberg  James R. Oleson
Stefano Vivona

PROGRAM

List of Participants .......................................................... 4706s
Opening Remarks.
   Willis J. Taylor .......................................................... 4707s

Biology, Physiology

Chairperson: William C. Dewey

Biological Effects of Heat.
   Eric J. Hall and Laurie Roizin-Towle ............................ 4708s
   W. C. Dewey ........................................................... 4714s
Effect of Local Hyperthermia on Blood Flow and Microenvironment: A Review.
   Chang W. Song .......................................................... 4721s
Sequencing of the Total Course of Hyperthermia and Irradiation.
   B. Emami, B. M. Mittal, and S. Sapareto ......................... 4731s
Summary of Discussion.
   William C. Dewey ..................................................... 4733s

Heat Delivery

Chairperson: James R. Oleson

Deep Local Hyperthermia for Cancer Therapy: External Electromagnetic and Ultrasound Techniques.
   Augustine Y. Cheung and Ali Neyzari ............................. 4736s
The Clinical Efficacy of Localized Hyperthermia.
   John L. Meyer .......................................................... 4745s
Local Hyperthermia with Interstitial Techniques.
   Ivan A. Brezovich, William J. Atkinson, and Michael B. Lilly 4752s
Combined Interstitial Irradiation and Localized Current Field Hyperthermia: Results and Conclusions from Clinical Studies.
   Silvio A. Aristizabal and James R. Oleson ....................... 4757s
Regional Power Deposition for Hyperthermia: Theoretical Approaches and Considerations.
   James R. Oleson ...................................................... 4761s
   Frederic A. Gibbs, Jr. ................................................ 4765s
Summary of Discussion.
   James R. Oleson ...................................................... 4771s

Thermal Dosimetry

Chairperson: Thomas C. Cetas

The Utility of Thermal Dose as a Predictor of Tumor and Normal Tissue Responses to Combined Radiation and Hyperthermia.
   Mark W. Dewhirst and Dalice A. Sim .............................. 4772s

4704s
John W. Strohbehn .................................................. 4781s

Applications of Bioheat Transfer Simulations in Hyperthermia.
R. B. Roemer and T. C. Cetas ...................................... 4788s

Direct Temperature Measurement.
Peter Fessenden, Eric R. Lee, and Thaddeus V. Samulski .............. 4799s

Will Thermometric Tomography Become Practical for Hyperthermia Treatment Monitoring?
Thomas C. Cetas .................................................... 4805s

Summary of Discussion.
Thomas C. Cetas .................................................... 4809s

Clinical Dose Effects
Chairperson: Carlos A. Perez

Quality Assessment and Assurance in Clinical Hyperthermia: Requirements and Procedures.
Gilbert H. Nussbaum ............................................... 4811s

Thermal Dose Expression in Clinical Hyperthermia and Correlation with Tumor Response/Control.
Carlos A. Perez and Stephen A. Saperato ......................... 4818s

Pathological Effects of Hyperthermia in Normal Tissues.
Luis Felipe FajardoL-G ........................................... 4826s

Clinical Use of Thermal Enhancement and Therapeutic Gain for Hyperthermia Combined with Radiation or Drugs.
Edward L. Gillette .................................................. 4836s

Anatomical Site-specific Modalities for Hyperthermia.
Malcolm A. Bagshaw, Mark A. Taylor, Daniel S. Kapp, John L. Meyer, Thaddeus V. Samulski, Eric R. Lee, and Peter Fessenden ...... 4842s

An Update on the Anticancer Effects of a Combination of Chemotherapy and Hyperthermia.
Joan M. C. Bull ...................................................... 4853s

Problem of Sequence and Fractionation in the Clinical Application of Combined Heat and Radiation.
Giorgio Arcangeli, Carlo Nervi, Anna Cividalli, and Giorgio A. Lovisolo .... 4857s

Induction of Hyperthermia Using Implanted Electrodes.
O. H. Frazier and Peter M. Corry .................................. 4864s

Summary of Discussion.
Carlos A. Perez ..................................................... 4867s

Whole-Body Hyperthermia
Chairperson: Joan M. C. Bull

Whole-Body Hyperthermia Induction Techniques.
Andrew J. Milligan .................................................. 4869s

General Anesthesia for Whole-Body Hyperthermia.
Leslie H. Cronau, Jr., Denis L. Bourke, and Joan M. Bull ............. 4873s

H. Ian Robins ...................................................... 4878s

Summary of Discussion.
Joan M. C. Bull ...................................................... 4884s

Commentaries and Summary
Chairperson: George M. Hahn

Thermal Biology and Physiology in Clinical Hyperthermia: Current Status and Future Needs.
Gloria C. Li .......................................................... 4886s

Status and Future Developments in the Physical Aspects of Hyperthermia.
T. C. Cetas and R. B. Roemer ...................................... 4894s

Past Clinical Studies and Future Directions.
J. Robert Stewart .................................................... 4902s

Summary of Discussion.
George M. Hahn ..................................................... 4905s

Conference Summary.
George M. Hahn ..................................................... 4906s

OCTOBER 1984
4705s
Cancer Research

44 (10 Supplement)

Cancer Res 1984;44:4873s-4770s.

Updated version
Access the most recent version of this article at:
http://cancerres.aacrjournals.org/content/44/10_Supplement.citation

E-mail alerts
Sign up to receive free email-alerts related to this article or journal.

Reprints and Subscriptions
To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at pubs@aacr.org.

Permissions
To request permission to re-use all or part of this article, contact the AACR Publications Department at permissions@aacr.org.