

PROGRAM PLANNING COMMITTEE

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William C. Dewey **Joseph P. Lowenthal**
Saul B. Gusberg **James R. Oleson**
Stefano Vivona

PROGRAM

List of Participants	4706s
Opening Remarks.	
<i>Willis J. Taylor</i>	4707s

Biology, Physiology

Chairperson: William C. Dewey

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

Heat Delivery

Chairperson: James R. Oleson

Deep Local Hyperthermia for Cancer Therapy: External Electromagnetic and Ultrasound Techniques.	
<i>Augustine Y. Cheung and Ali Neyzari</i>	4736s
The Clinical Efficacy of Localized Hyperthermia.	
<i>John L. Meyer</i>	4745s
Local Hyperthermia with Interstitial Techniques.	
<i>Ivan A. Brezovich, William J. Atkinson, and Michael B. Lilly</i>	4752s
Combined Interstitial Irradiation and Localized Current Field Hyperthermia: Results and Conclusions from Clinical Studies.	
<i>Silvio A. Aristizabal and James R. Oleson</i>	4757s
Regional Power Deposition for Hyperthermia: Theoretical Approaches and Considerations.	
<i>James R. Oleson</i>	4761s
Regional Hyperthermia: A Clinical Appraisal of Noninvasive Deep-Heating Methods.	
<i>Frederic A. Gibbs, Jr.</i>	4765s
Summary of Discussion.	
<i>James R. Oleson</i>	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.	
<i>Mark W. Dewhirst and Dalice A. Sim</i>	4772s

Calculation of Absorbed Power in Tissue for Various Hyperthermia Devices. <i>John W. Strohbehn</i>	4781s
Applications of Bioheat Transfer Simulations in Hyperthermia. <i>R. B. Roemer and T. C. Cetas</i>	4788s
Direct Temperature Measurement. <i>Peter Fessenden, Eric R. Lee, and Thaddeus V. Samulski</i>	4799s
Will Thermometric Tomography Become Practical for Hyperthermia Treatment Monitoring? <i>Thomas C. Cetas</i>	4805s
Summary of Discussion. <i>Thomas C. Cetas</i>	4809s

Clinical Dose Effects

Chairperson: Carlos A. Perez

Quality Assessment and Assurance in Clinical Hyperthermia: Requirements and Procedures. <i>Gilbert H. Nussbaum</i>	4811s
Thermal Dose Expression in Clinical Hyperthermia and Correlation with Tumor Response/Control. <i>Carlos A. Perez and Stephen A. Sapareto</i>	4818s
Pathological Effects of Hyperthermia in Normal Tissues. <i>Luis Felipe Fajardo L-G</i>	4826s
Clinical Use of Thermal Enhancement and Therapeutic Gain for Hyperthermia Combined with Radiation or Drugs. <i>Edward L. Gillette</i>	4836s
Anatomical Site-specific Modalities for Hyperthermia. <i>Malcolm A. Bagshaw, Mark A. Taylor, Daniel S. Kapp, John L. Meyer, Thaddeus V. Samulski, Eric R. Lee, and Peter Fessenden</i>	4842s
An Update on the Anticancer Effects of a Combination of Chemotherapy and Hyperthermia. <i>Joan M. C. Bull</i>	4853s
Problem of Sequence and Fractionation in the Clinical Application of Combined Heat and Radiation. <i>Giorgio Arcangeli, Carlo Nervi, Anna Cividalli, and Giorgio A. Lovisolo</i>	4857s
Induction of Hyperthermia Using Implanted Electrodes. <i>O. H. Frazier and Peter M. Corry</i>	4864s
Summary of Discussion. <i>Carlos A. Perez</i>	4867s

Whole-Body Hyperthermia

Chairperson: Joan M. C. Bull

Whole-Body Hyperthermia Induction Techniques. <i>Andrew J. Milligan</i>	4869s
General Anesthesia for Whole-Body Hyperthermia. <i>Leslie H. Cronau, Jr., Denis L. Bourke, and Joan M. Bull</i>	4873s
Role of Whole-Body Hyperthermia in the Treatment of Neoplastic Disease: Its Current Status and Future Prospects. <i>H. Ian Robins</i>	4878s
Summary of Discussion. <i>Joan M. C. Bull</i>	4884s

Commentaries and Summary

Chairperson: George M. Hahn

Thermal Biology and Physiology in Clinical Hyperthermia: Current Status and Future Needs. <i>Gloria C. Li</i>	4886s
Status and Future Developments in the Physical Aspects of Hyperthermia. <i>T. C. Cetas and R. B. Roemer</i>	4894s
Past Clinical Studies and Future Directions. <i>J. Robert Stewart</i>	4902s
Summary of Discussion. <i>George M. Hahn</i>	4905s
Conference Summary. <i>George M. Hahn</i>	4906s

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4705s

Cancer Research

The Journal of Cancer Research (1916–1930) | The American Journal of Cancer (1931–1940)

44 (10 Supplement)

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

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