Friday, July 13, 2007

1:00 p.m. – 2:30 p.m.   Lunch, Vineyard Room

1:00 p.m. – 2:30 p.m.   Registration, Lobby Foyer

SESSION I:   SYSTEM RESPONSES
3:00 p.m. – 5:50 p.m.   Ballroom III/IV

Chairs: Mary Helen Barcellos-Hoff
        Francis Cucinotta
        Gregory Nelson

3:00 p.m. – 3:05 p.m.   Mary Helen Barcellos-Hoff and Gregory Nelson
        Introductions and Greetings

3:05 p.m. – 3:15 p.m.   Francis Cucinotta
        Welcome Address

3:15 p.m. – 4:00 p.m.   Andrei Gudkov*
        Protection via NF-κB Stimulation

4:00 p.m. – 4:30 p.m.   Nelson G. A.*
        A Brief Review of Effects of High LET Radiation on the Central Nervous System

4:30 p.m. – 5:00 p.m.   Chang P. Y.* Bakke J. Puey A. Lin S.
        Spectral Analysis of Mutations in Tissues After Particle Radiation

5:00 p.m. – 5:30 p.m.   Minna J. D.* Sato M. Girard L. Xie X-J. Yang C.-R. Peyton M. Sheridan S.
        Burma S. Chen D. Shay J. Story M.
        mRNA, DNA Repair and Premalignant Cellular Responses of Human Bronchial Epithelial Cells to HZE Particle and γ-Radiation

5:30 p.m. – 5:50 p.m.   Townsend L. W.*
        Overview of NCRP Report 153: Information Needed to Make Radiation Protection Recommendations for Space Missions Beyond Low-Earth Orbit

6:00 p.m. – 7:00 p.m.   Dinner, Vineyard Room

7:00 p.m. – 9:00 p.m.   Poster Session I, Ballroom I/II

*Presenting Author
CANCER/GENOMIC INSTABILITY POSTER SESSION I
7:00 p.m. – 9:00 p.m.  Ballroom I/II

Marcu O. Sanchez M. E. Fong D. Selch F. Rightnar S. Bhattacharya S.*
Proton Irradiation Promotes Tumor Formation and Affects the Locomotor Behavior of the Fruit Fly, Drosophila Melanogaster

Cornforth M. N.* Loucas B. D.
HZE Particles Fail to Induce Chromosomal Instability in the Clonal Derivatives of Irradiated Human Cells

Sudo H. Garbe J. C. Stampfer M. R. Barcellos-Hoff M. H. Kronenberg A.*
Genomic Instability in Finite Lifespan Human Mammary Epithelial Cells Exposed to X-rays or Fe Ions

Mukhopadhyay, R.* Bazarov A. Hines W.C. Barcellos-Hoff M.H. Yaswen P.
Radiation increases the outgrowth of p16$^{ink4a}$(-) human mammary epithelial cells in serum-free cultures

Leukemogenesis and Early Loss of PU.1 on Chromosome 2 in CBA/CaJ and C57BL/6 Mice After Irradiation with HZE Iron Ions

Radiation- and Diet-Induced Differential Expression of Genes Measured over Time in Exfoliated Rat Colonocytes

CNS EFFECTS POSTER SESSION I
7:00 p.m. – 9:00 p.m.  Ballroom I/II

Mao X. W.* Kubinova L. Janacek J. Mekonnen T. Lindsay N. Archambeau J. O.
Dose Response of Brain Vasculature to Proton Irradiation: a Progress Report

Lindsay N. Archambeau J. O. Mekonnen T. Larsen S. Crapo J. Mao X. W.*
Evaluation of Mn-TE-2-PyP as a MnSOD Mimic in Protecting Rat Rectal Mucosa Exposed to Proton Radiation

Narici L.*
Radiation Environment in the ISS and Effects on Brain Electrophysiology: ALTEA Status and Perspectives

Sanchez M. C.* Bianski B. M. Green L. M.
Response of Astrocytes and Neurons to Carbon Ions

Vlkolinsky R. Spigelman I. Nelson G. A. Krucker T. Obenaus A.*
Long-Term Effects of 56Fe Radiation-Induced Impairment of Synaptic Plasticity: The Effect of Lipopolysaccharide in the Mouse Hippocampus

Yu Y.* Gao Y. Wu P.
Impact of 56Fe Ion Radiation on Human Neural Stem Cell Differentiation

DAMAGE RESPONSE POSTER SESSION I
7:00 p.m. – 9:00 p.m.  Ballroom I/II

George K.* Kim M. Y. Elliott T. Cucinotta F. A.
Analysis of Chromosome Aberrations in the Blood Lymphocytes of Astronauts After Space Flight
Grabham P. G*  Hu B. H  Jenkins G. J.  Geard C. R. G.  
Space Ionizing Radiation Effects on Tube Formation by Endothelial Cells Cultured in 3-Dimensional Collagen Matrices

Kim A.  Vazquez M. E.  Guida P.*  
HZE Radiation Induced DNA Damage and Its Repair Have Different Kinetics in Human Neuronal Progenitor Cells Versus in Post-Mitotic Neurons

Naidu M. D.*  Pena L.  
Effect of X-rays on Apurinic Endonuclease-1 (Ape1) Activity in Glial Progenitor Cells

Park S.*  Sato M.  Peyton M.  Minna J. D.  Story M. D.  
Determination of Radiation Survival, Cellular Transformation, and Tumorigenicity in Isogenic Human Bronchial Epithelial Cells After Exposure to Low and High LET Radiation

Maes O. C.  Xu S.  Hada M.  Wu H.  Wang E.*  
Comparative MicroRNA Expression Patterns in Fibroblasts After Low and High Doses of Low-LET Radiation Exposure

Understanding the Role of DNA PK in Repair of Different Qualities of High and Low LET Radiation in Various Phases of the Cell Cycle

Zhang Ye  Mehta Satish  Hammond Dianne  Pierson Duane  Jeevarajan Antony  Rohde Larry  Wu Honglu*  
Expression of Genes Associated with DNA Damage Sensing in Human Fibroblasts Exposed to Low-dose-rate Gamma Rays

MODELS POSTER SESSION I
7:00 p.m. – 9:00 p.m.  Ballroom I/II

Carnes B.A.*  
Interspecies Extrapolation: Problems and Approaches

Dingfelder M.*  Jorjishvili I. G.  Gersh J. A.  Toburen L. H.  
Patterns of Energy Deposition by HZE Particles in Cellular Targets

Lin Z. W.*  
Can the Equivalent Sphere Model Approximate Organ Doses in Space?

Smirnova O. A.*  
Mathematical Model for Assessment of Risk of Low Level Chronic Irradiation in Combination with Acute Exposures

Sutherland J. C.*  Marples B.  Joiner M.  
Low Dose Hypersensitive Radiation Survival: a Repair Dependent Stochastic Model

SPACE PHYSICS/SHIELDING POSTER SESSION I
7:00 p.m. – 9:00 p.m.  Ballroom I/II

Braby L. A.*  Wang X.  Xia Z.  Liu H.  
Energy Deposition in Different Microscopic Volumes as an Indication of Charged Particle Radiation Quality
Radiation Shielding Properties of Materials Used in Human Space Infrastructures: a Ground-based and International Space Station Study of Kevlar and Nextel

Kim M. Y.*  Nikjoo H.  Dicello J. F.  Pisacane V. L.  Cucinotta F. A.

Interpretation of TEPC Measurements in Space Flights for Radiation Monitoring

Miller J.*  DiGiuseppe M.  Eimer B.  Heilbronn L.  Rusek A.  Sivertz M.  Sanders G.  Taylor L.  Zeitlin C.

Heavy Charged Particle Transport and Dose Reduction in Lunar Regolith

Shulthise L. A.  Todd P.*

Controlled-Environment Automated Sample Changer for High-Energy Particle Irradiations

PREVENTION/PROTECTION POSTER SESSION I
7:00 p.m. – 9:00 p.m.  Ballroom I/II

Kennedy A. R.*  Ware J. H.  Davis J. D.  Sanzari J.  Nuth M.  Wambi C. O.

Countermeasures for Space Radiation Induced Neoplastic Changes in Cells of Hematopoietic Origin and Radiation Induced Mortality


Amifostine Modulates Multiple Toxicity of Gamma-ray and Fission-neutron Exposures in Mice

Bone F  Strom E  Kononov -1  Young J  Godkov A  Feinstein E  Shakhov A*

CBLB600s: a Family of Novel Compounds with Radioprotective and Hematopoietic Stem Cells Stimulating Activity, Acting Via Activation of TLR2 Receptor Complexes

STUDENT POSTERS SESSION I
7:00 p.m. – 9:00 p.m.  Ballroom I/II

Baqai F. P.*  Gridley D. S  Bayeta E  Andres M  Makinde M. Y.  Rizvi A  Luo X  Rightnar S

Pecaut M. J.

Effects of Radiation on Bacteria Clearance

Delgado O.*  Minna D. G.  Richardson J. A.  Xie X.  Ding L.  Story M. D.  Minna J. D.  Shay J. W.

Space Radiation Effects on Lung Cancer Progression in LA1 K-ras Mouse Model of Lung Cancer

Dziegielewski J.*  Baulch J. E.  Goetz W.  Li Y.-J.  Aypar U.  Murley J. S.  Grdina D. J.  Morgan W. F.

Effects of Synthetic and Nutritional Radio-Protectors on High- and Low-LET Radiation-Induced Genomic Instability


Globus R. K.  Vercoutere W.  Limoli C.  Searby N. D.

Cellular Mechanisms for Acute Cancellous Bone Loss in Adults Caused by Radiation and Simulated Weightlessness

Trani D.*  Cassone M.  D'Agostino L.  Caputi M.  Durante M.  Giordano A.

Analysis of Transcriptional and Protein Modulation in Human Normal Lung Derived Cells Exposed to Single and Multiple Doses of Gamma-rays
Saturday, July 14, 2007

SESSION II: SPACE PHYSICS/SHIELDING
8:30 a.m. – 10:20 a.m. Ballroom III/IV

Chairs: Eleanor Blakely  
Lawrence Heilbronn

8:30 a.m. – 8:55 a.m. Dietze G. *  
The ICRP Task Group on Radiation Protection in Space

Design Methods for Radiation Shielding with Multifunctional Materials

9:20 a.m. – 9:40 a.m. Rusek A. * Lowenstein D. I.  
NSRL Update

9:40 a.m. – 10:00 a.m. Zeitlin C. * Guetersloh S. Heilbronn L. Miller J.  
Charge Changing and Fragment Production Cross Sections of C, Si, and Fe at 3, 5, and 10 GeV/nucleon

10:00 a.m. – 10:20 a.m. Posner A. *  
Up to One-Hour Forecasting of Radiation Hazards from Solar Energetic Ion Events with Relativistic Electrons

10:20: a.m. – 10:45 a.m. Break

SESSION III: COMPUTATIONAL MODELS AND SYSTEMS BIOLOGY
10:45 a.m. – 12:00 p.m. Ballroom III/IV

Chairs: Herwig Paretzke  
Walter Schimmerling

10:45 a.m. – 11:10 a.m. Sachs R. K. * Hahnfeldt P. Shuryak I. Fakir H. Brenner D. J. Hlatky L.  
Biologically Based Models for the Risk of Radiation-Induced Cancer

11:10 a.m. – 11:35 a.m. Hahnfeldt P. * Levy D. Sachs R. Reeder C. Chen A. Loucas B. Cornforth M. Hlatky L.  
Apparently Incomplete Chromosome Aberrations: Applicability to RBE Estimation and Biodosimetry

11:35 a.m. – 12:00 p.m. Cucinotta F. A. *  
Fining Uncertainties That Cause the Age Dependence of Dose Limits to Be Immature

Noon – 1:00 p.m. Lunch, Vineyard Room

SESSION IV: CANCER AND ITS SURROGATES, PART I
1:00 p.m. – 3:25 p.m. Ballroom III/IV

Chairs: Lora Green  
Marco Durante

1:00 p.m. – 1:45 p.m. Nikiforov Y. E. *  
Chromosomal Rearrangements and Point Mutations in Radiation-Induced Thyroid Cancer

Radiation Leukemogenesis NSCOR
2:10 p.m. – 2:35 p.m. Burns F. J. * Tang M. S. Wu F. Zhang R. H.
Dose, Dose Rate and Prevention in the 2-Lesion Model of Radiation Carcinogenesis in Rat Skin

2:35 p.m. – 3:00 p.m. Elmore E. Lao X-Y Kapadia R Redpath J. L. *

3:00 p.m. – 3:25 p.m. Sutherland B. M. * Bennett P. V. Cutter N. C. Trunk J. Abele W. Zhou G.
Efficiency of Transformation of Human Primary Cells to Anchorage-Independent Growth by HZE Particles or Protons

3:25 p.m. – 3:45 p.m. Break

SESSION V: CANCER AND ITS SURROGATES, PART II
3:45 p.m. – 5:50 p.m. Ballroom III/IV
Chairs: Peter O'Neill Jerry Shay

Responses of Human Mammary Epithelial Cells Induced by Sparsely and Densely Ionizing Radiation

4:10 p.m. – 4:35 p.m. Hlatky L.*
Solid Tumor Risk Estimation: Incorporating Intercellular Interaction Effects

4:35 p.m. – 5:00 p.m. Yamamoto M. L. Hafer K. Reliene R. Trouiller B. Kelly O. Bral M. Schiestl R. H. *
The Effect of Space Radiation on Genetic Instability, Neuromotor Function, Carcinogenesis, and Longevity in Atm Mutant Mice

5:00 p.m. – 5:25 p.m. Sanzari J. K. Ko Y.-H. Kennedy A. R. *
Induction of IL8 in Htori-3 Cells Irradiated with HZE Particles (Iron Ions)

5:25 p.m. – 5:50 p.m. Kronenberg A. * Gauny S. Kwoh E. Wiese C. Dan C. Turker M.
Comparative Analysis of Fe Ion-Induced Autosomal Mutations in Mammalian Models in Vitro and in Vivo

6:00 p.m. – 8:00 p.m. Poster Session II, Ballroom I/II

CANCER/GENOMIC INSTABILITY POSTER SESSION II
6:00 p.m. – 8:00 p.m. Ballroom I/II

Bertucci A. Gialanella G. Grossi G. Manti L. Pugliese M. Scampoli P. Rusek A. Vazquez M. Durante M.*
Chromosomal Aberrations in Human Lymphocytes Exposed to Low-dose Rate Energetic Protons

Ding L. H.* Park S. Minna J. D. Story M. D.
Comparison of Gene Expression Profiles of Human Bronchial Epithelial Cells After HZE and f×-Ray Radiation

Hada M.* Saganti P. B. Gersey B. Wilkins R. Cucinotta F. A. Wu H.
Break Point Distribution on Chromosome 3 of Human Epithelial Cells Exposed to γ-rays, Neutrons and Fe Ions
Kawata T. K.* Ito H. I. Liu C. L. Shigematsu N. S. George K. G. Cucinotta F. C.
Chromosome Aberrations in Normal and Ataxia-Telangiectasia Cells Exposed to Heavy Ions

Ritter S.* Hartel C. Sommer S. Fournier C. Hessel P. Debus J. Schulz-Ertner D.
Cytogenetic Damage Induced In Vivo by High and Low LET Radiation: Follow up of Radiotherapy Patients

Cai W. W. Ehrhart E. J. Genik P. C. Bailey S. M. Ullrich R. L.
Radiation Leukemogenesis NSCOR Works in Progress

Ohnishi T.* Takahashi A. Ohnishi K.
Gene Expression of P53-regulated Genes in Mammalian Cultured Cells After Exposure to Space Environment

CNS EFFECTS POSTERS II
6:00 p.m. – 8:00 p.m. Ballroom I/II

Hintermüller C.* Coats J. S. Obenaus A. Nelson G. Krucker T. Stampanoni M.
Assessment of Radiation Induced Alterations in Brain Micro Vasculature Using X-Ray Tomographic Microscopy

Mao X. W.* Farve C. Pecaut M. J. Nelson G.

Huang L. Smith A. Favre C. Obenaus A.*
Temporal Magnetic Resonance Imaging Characteristics Within the Rat Hippocampus Following 56Fe Radiation

Cummings P. Obenaus A.*
Delayed Axonal Degeneration and Astrogliosis in the Central Nervous System of Rats After 56Fe Radiation Exposure

Effects of Head-Localized Iron Radiation on Hippocampal Microglia Counts

Distinct Neuroinflammatory Responses to Gamma and HZE Particle Irradiation

DAMAGE RESPONSE POSTERS II
6:00 p.m. – 8:00 p.m. Ballroom I/II

Asaithamby Aroumougame* Uematsu Naoya Gonzalez Oskar Chen David, J.
Visualization of HZE Induced DNA Double-strand Breaks Repair in Living Cells

Costes S. V.* Ponomarev A. Chen J. L. Nguyen D. Cucinotta F. A. Barcellos-Hoff M. H.
Image-based Modeling Reveals Dynamic Redistribution of DNA Damage into Nuclear Sub-domains

Groesser T.* Parvin B. Costes S. V. Barcellos-Hoff M. H. Rydberg B.
Persistence of Radiation-induced Foci After Exposure of Proliferating Human Mammary Epithelial Cells to Sparsely and Densely Ionizing Radiation
Radiation-Induced Cell Death is Escaped by a Subpopulation of Cells Undergoing Mitotic Catastrophe by Initiating a Program of Reduction Division: a Mechanism for Tumor Resistance, Tumor Progression and Tumor Development?

Involvement of DNA-PKcs in DSB Repair Following 56Fe Ion Irradiation

ATM is Not Directly Involved in Ku-dependent Non-homologous End-joining DNA Repair

A Role for Homologous Recombination in Complex DSB Repair After HZE Particles

EDUCATION POSTERS
6:00 p.m. – 8:00 p.m.  Ballroom I/II

Calculation of Cell Transformation with the Local Effect Model (LEM)

Biophysical Modeling of DNA Lesion Complexity and DSB Rejoining

High-LET Patterns of DSBs in DNA Loops, the HPRT Gene and Phosphorylation

Selective-Core Model Calculations of Oxygen Nuclei Fragmentation and the Implications with the Current GCR Data

Developing Novel Imaging Techniques to Study Radiation Induced Signaling in 3D Model Systems

NON-CANCER EFFECTS POSTERS
6:00 p.m. – 8:00 p.m.  Ballroom I/II

The Space Experiments CERASP and CELLPATH: European Contributions to Space Radiation Biology

Gender-related Differences in Radiation Cataractogenesis

Effect of High Energy Particle Irradiation on Adhesiveness of Vascular Endothelium and Its Consequences for Atherosclerosis
Berkowitz D. E.*

*OInhibition Inhibits Vascular Dysfunction in Irradiated Rats

**SPACE PHYSICS/SHIELDING POSTERS II**
6:00 p.m. – 8:00 p.m.  Ballroom I/II

Mukherjee B.  Miller J.  Burma S.*

The DNA Damage Response to HZE Particles and Its Modulation by Shielding

Hassler D. M.*  Kortmann O.  Martin C.  Boehm E.  Boettcher S.  Burmeister S.  Posner A.  Reitz G.
Wimmer-Schweingruber R. F.  and the RAD Team

Early Calibration Results and Modeling of the Radiation Assessment Detector (RAD) on the Mars Science
Laboratory (MSL)


Combined Ion and Neutron Spectrometer for Space Applications

Groesser T.  Chun E.  Barcellos-Hoff M. H.  Rydberg B.*

Relative Biological Efficiency for Micro-nuclei Induction After Low Doses of HZE Fe-ions, and the Effect of
Polyethylene Shielding

**PREVENTION/PROTECTION POSTERS II**
6:00 p.m. – 8:00 p.m.  Ballroom I/II

Baulch J. E.*  Dziegielewski J.  Goetz W.  Aypar U.  Li Y.-J.  Murley J. S.  Grdina D. J.  Morgan W. F.

Amifostine Metabolite WR-1065 Mitigates High and Low LET Radiation-Induced Genomic Instability

Miller A. C.*  Rivas R.  Stewart M.  Merlot R. J.  Lison P. R.

Use of a Radiation-Induced Leukemia Mouse Model: Applicability to the Development of Biological
Countermeasures and Biomarker Discovery


Disruption of Recognition Memory by Exposure to 56Fe Particles and Its Amelioration by Antioxidant Berry
Diets


Beneficial Effects of Berry Diets on Memory Behavior and Gene Function Following Exposure to 56Fe
Particles

**STUDENT POSTERS SESSION II**
6:00 p.m. – 8:00 p.m.  Ballroom I/II

Gersh J. A.*  Dingfelder M.  Toburen L. H.

The Influence of Tissue Inhomogeneity on Marrow Dose in Trabecular Spongiosa

Harrison C.*  Grulke E.

Polyethylene/boron containing composites for space radiation shielding applications


Modeling the prodromal effects and performance reduction of astronauts from exposure to large solar particle
events

Roig A. R.*  Shay J. W.

3D Models for Risk Assessment of Space Radiation-Enhanced Colon Tumorigenesis
Sriprisan S. I.*  Townsend L. W.  Cucinotta F. A.

*Improved knockout-ablation-coalescence model for secondary neutron and light ion production in nucleus-nucleus collisions*
Sunday, July 15, 2007

NSRL USERS' MEETING, 9:00 a.m. – 9:30 a.m. Ballroom III/IV

Chairs: Derek Lowenstein
        Adam Rusek
        Betsy Sutherland

CANCER ROUNDTABLE DISCUSSION, 9:30 a.m. – 11:00 a.m. Ballroom III/IV

Chairs: Lynn Hlatky
        Jerry Shay

CNS ROUNDTABLE DISCUSSION, 9:30 a.m. – 11:00 a.m. Vineyard Room

Chairs: Gregory Nelson
        Frank Sulzman

10:15 a.m. – 10:30 a.m. Break

ROUNDTABLE SUMMARIES, 11:00 a.m. – 11:30 a.m. Ballroom III/IV

11:30 a.m. – 12:30 – Lunch, Vineyard Room

SESSION VI: DAMAGE AND RESPONSES
12:30 p.m. – 2:35 p.m. Ballroom III/IV

Chairs: Lynn Hlatky
        Betsy Sutherland

12:30 p.m. – 1:15 p.m. Jacob P. * Meckbach R. Sokolnikov M. E. Khokhryakov V. V. Vasilenko E. K.
                          Lung Cancer Mortality of Mayak Workers - Modelling of Carcinogenesis and the Bystander Effect

1:15 p.m. – 1:35 p.m. Whalen M. K. Gurai S. K. Pluth J. M. *
                       Profiling Key Phospho-protein Kinetics in Different Cell Types After Low and High LET Exposure

1:35 p.m. – 1:55 p.m. Bailey S. M. *
                       Telomeres and Double-Strand Breaks - Dealing with DNA "Ends"

1:55 p.m. – 2:15 p.m. Bacher J. * Abdel Megid W. Ensenberger M. Halberg R. Stanhope S. Kent-First M.
                       Prolla T. Storts D.
                       A Novel Biodosimetry Method

2:15 p.m. – 2:35 p.m. Yang H. Purschke M. Spantchak Y. Held K. D. *
                       Bystander Effects Induced by Low Fluences of Energetic Protons and Iron Ions in Human Normal Fibroblasts

2:35 p.m. – 2:55 p.m. Break
SESSION VII: DEGENERATIVE RISKS
2:55 p.m. – 4:55 p.m. Ballroom III/IV

Chairs: Gregory Nelson
       Michael Weil

2:55 p.m. – 3:15 p.m. Chylack L. T. Jr.* Feiveson A. H. Peterson L. E. Manuel F. K. Wear M.
Tung W. H. Hardy D. S. Marak L. J. Bell C. Cucinotta F. A.
The NASCA Study: Cross-sectional Analysis of Exposure to Radiation in Space and Risk of Lens Opacification

3:15 p.m. – 3:35 p.m. Blakely E. A. * Chang P. Y. Bjornstad K. A. Rosen C. J.
Particle Radiation Alters Expression of Matrix Metalloproteases Resulting in ECM Remodeling in Human Lens Cells

3:35 p.m. – 3:55 p.m. Limoli C. L. * Izadi A. Suarez V. T. Giedzinski E. Rola R. Fike J. R.
CNS Damage from Space Radiation

3:55 p.m. – 4:15 p.m. Fike J. R. * Rola R. Potts M. B. Tsuru K. Noble-Haeusslein L. Fishman K.
Baure J. Rosi S. Milliken H. Obenaus A.
The Effects of Brain Irradiation and Subsequent Traumatic Brain Injury on Measures of Forebrain Neurogenesis

4:15 p.m. – 4:35 p.m. Raber J. * Villasana L. Poage C. Pfankuch T. van Meer P.
Effects of 56Fe Radiation on Cognition Critically Modulated by ApoE Isoform

4:35 p.m. – 4:55 p.m. Gatley S. J. * Rice O. V. Grande A. M. Dekhtyar N. Soukrati A. Ricci L. A.
Robinson J. R. Neill J. C.
Re-examination of the Dopamine Hypothesis Concerning Long-term Neurological Effects of HZE Radiation

6:00 p.m. – 7:30 p.m. Dinner Banquet, Vineyard Room
Mina Bissell, Banquet Speaker

Monday, July 16, 2007

7:00 a.m. Group transportation to San Francisco and Oakland Airports