

BIODOSE 2015 PROGRAM

Friday, October 2 – EPR Center

12:00 - 4:00PM **MISO WG18 and Subcommittee Meeting**

(by invitation only, please contact Ruth Wilkins [Ruth.Wilkins@hc-sc.gc.ca] if you wish to attend)

EPR Center at Dartmouth

Organizer – Ruth Wilkins

ISO WG18 - EPR subgroup Meeting

(by invitation only, please contact Paola Fattibene [paola.fattibene@iss.it] if you wish to attend)

EPR Center at Dartmouth

Organizer – Paola Fattibene

Saturday, October 3 – EPR Center

9:00AM - 4:00PM **MISO WG18 and subcommittee meeting**

(by invitation only, please contact Ruth Wilkins [Ruth.Wilkins@hc-sc.gc.ca] if you wish to attend)

EPR Center at Dartmouth

Organizer – Ruth Wilkins

ISO WG18 - EPR subgroup Meeting

(by invitation only, please contact Paola Fattibene [paola.fattibene@iss.it] if you wish to attend)

EPR Center at Dartmouth

Organizer – Paola Fattibene

Sunday, October 4 – Hanover Inn

12:00PM **Check-in table open – Hanover Inn**

9:00AM - 4:00PM **The 4th Coordination Meeting of the WHO BioDoseNet**

(by invitation only, please contact Zhanat Carr [carrz@who.int] if you wish to attend)

Hanover Inn – Hayward Lounge

Organizer – Zhanat Carr

4:00 – 7:00PM **RENEB Meeting (including Advisory Board)**

(by invitation only, please contact Ulrike Kulka [UKulka@BfS.de] if you wish to attend)

Hanover Inn – Hayward Lounge

Organizer - Ulrike Kulka

5:30 – 9:00PM **Welcome Dinner - Dartmouth Outing Club House, Hanover, New Hampshire**

10 minute walk from Hanover Inn, maps will be provided

Monday, October 5 – Hanover Inn

6:45 – 7:45AM **IABERD Steering Committee Meeting**
Members of committee only (room to be announced)

8:00 – 8:20AM Greetings from sponsoring/hosting organizations

Chair: Hal Swartz

Geisel School of Medicine – Duane Compton, Dean
Norris Cotton Cancer Center – Konstantin Dragnev, Ass. Director for Clinical Research
Dept. of Radiology – Jocelyn Chertoff, Chair
NIAID/CMCR - Merriline Satyamitra, Program Officer
EPR Society - Hitoshi Ohta, President
IABERD - Philippe Voison, President

PERSPECTIVES ON THE PROBLEMS, THE SOLUTIONS, AND THE PLAYERS

Chairs: Philippe Voisin & Merriline Satyamitra

8:20 – 8:30AM O-1-M Harold Swartz: Greetings and overview of the meeting with a focus on promoting heresy

8:30 – 9:00AM O-2-M Vijay Singh: Radiation countermeasures for acute radiation syndrome: an update

9:00 – 9:30AM O-3-M Norman Coleman: Biodosimetry: helping the medical decision-maker manage people following a large scale nuclear or radiological incident

9:30 – 9:50AM **BREAK**

RADIATION BIODOSIMETRY FOR MEDICAL PLANNING AND RESPONSE TO LARGE SCALE RADIATION EVENTS - Part 1

Chairs: Norm Coleman & Sally Amundsen

9:50 – 10:15AM O-4-M John Koerner: Biodosimetry networking: where we have been and where we are going

10:15 – 10:40AM O-5-M Judy Bader: Using biodosimetry and clinical assessments to manage ARS patients in a large mass casualty setting

10:40 – 11:05AM O-6-M Eric Daxon: USDOD biodosimetry: needs, requirements and integration into the federal response

11:05 – 11:30PM O-7-M Nicholas Dainiak: Integration of biodosimetry laboratories to meet surge capacity

11:30 – 12:30PM **LUNCH**

RADIATION BIODOSIMETRY FOR MEDICAL PLANNING AND RESPONSE TO LARGE SCALE RADIATION EVENTS – Part 2

Chair: Ben Williams

12:30 – 1:00PM O-8-M Brooke Buddemeier: Biodosimetry needs in the aftermath of nuclear terrorism (via televideo)-

ORGANIZATIONS INVOLVED IN MEDICAL PLANNING AND RESPONSE TO RADIATION EVENTS

Chairs: Paola Fattibene and Bill Blakely

1:00 - 1:15PM O-9-M Merriline Satyamitra: Overview of NIAID's radiation countermeasure, biodosimetry devices, and biomarkers program

- 1:15 – 1:25PM O-10-M Nick Dainiak: REAC/TS: past history and future directions
- 1:25 – 1:35PM O-11-M David Weinstock: Radiation Injury Treatment Network (RITN): healthcare professionals preparing for a mass casualty radiological event
- 1:35 – 1:50PM O-12-M Lester Huff: D.O.D. and AFRRRI
- 1:50 – 2:00PM O-13-M Matthias Port: ConRad 2015 - Global Conference on Radiation Topics --preparedness, response, protection and research
- 2:00 – 2:10PM O-14-M Ulrike Kulka: RENEb – overview
- 2:10 – 2:20PM O-15-M Zhanat Carr: WHO BioDoseNet: global biodosimetry laboratories network to support preparedness and response to radiation emergencies
- 2:20 – 2:30PM General Discussion
- 2:30 – 2:50PM **BREAK**

OVERVIEW SESSION ON STATE OF THE ART IN DOSIMETRY AND OXIMETRY: PART 1

Chairs: Bernard Gallez and Arif Ali

- 2:50 – 3:15PM O-16-M Bernard Gallez: Half a century of research on EPR of irradiated tissues
- 3:15 – 3:40PM O-17-M Ann Barry Flood: Comparative effectiveness of biodosimetry: comparing throughput and capacity in response to large-scale radiation events
- 3:40 – 4:05PM O-18-M Benjamin Williams: Meaningful ROC analysis for evaluation of radiation biodosimetry technologies
- 4:05 – 4:30PM O-19-M Steven Simon: Current needs of biodosimetry in studies of long-term health risk following radiation exposure
- 4:30 – 4:55PM O-20-M Howard Halpern: EPR oxygen imaging, breast cancer and Hal
- 4:55 – 5:20PM O-21-M Steven Swartz: State of the art of ex vivo (clipped nail) EPR dosimetry
- 5:30PM Buses depart from Hanover Inn
- 5:30 – 9:00PM **Dinner/Social Event** - *Montshire Museum, Norwich, Vermont*

Tuesday – October 6 – Hanover Inn

OVERVIEW SESSION ON STATE OF THE ART IN DOSIMETRY AND OXIMETRY: PART 2

Chairs: Ann Flood and Periannan Kuppusamy

- 8:00 – 8:25AM O-1-Tu Gareth Eaton: Optimizing obtaining quantitative information about spins in irradiated materials
- 8:25 – 8:50AM O-2-Tu Wojciech Froncisz: Digital CW L-band spectrometer

- 8:50 – 9:05AM O-3-Tu Anne Skinner: Current challenges in ESR dating
- 9:05 – 9:15AM O-4-Tu Paola Fattibene: Cellular reductant potential contributes to silencing EPR-detectable spin trap adducts formed in irradiated samples
- 9:15 – 10:00AM O-5-Tu Harold Swartz: State of the art in clinical applications of EPR: in vivo teeth & nail dosimetry & oximetry, and applications for the military

10:00 – 10:15AM **BREAK**

10:15AM – 12:15PM POSTER 1 SESSION (includes lunch)

Chairs: Ruth Wilkins and Elizabeth Ainsbury

(2 min oral presentations followed by discussions at the posters)

- P1-TU Francois Trompier: Overview of physical dosimetry methods for triage application integrated in the new European network RENEb
- P2-TU Saibadaiahun Nongrum: Genomic search of bio-marker for molecular bio-dosimetry of the future
- P3-TU Natividad Sebastià: Relationship between radiation-induced late toxicity in breast cancer patients and in vitro cellular
- P4-TU Helen Turner: γ -H2AX kinetic profile in mouse lymphocytes exposed to the internal emitters cesium-137 and strontium-90
- P5-TU Amit Verma: Proteomic analysis of mice tissue reveals the molecular mechanism underlying the radioprotective efficacy of tocopherols
- P6-TU Valeria Hadjidekova: Biological dose assessment following a radiation accident in Bulgaria
- P7-TU Alegria Montoro: Medical staff occupationally exposed to low doses of ionizing radiation. In vivo assessment of the antioxidant-oxidant status and evaluation of the antioxidant response and oxidative stress after an in vitro blood irradiation
- P8-TU Yu Abe: Analyses of dicentric chromosome and chromosomal translocation after a single CT scan in adults
- P9-TU Stephen Barnard: Low dose radiation effects on the lens and radiation-induced cataractogenesis
- P10-TU Elizabeth Ainsbury: UK NIHR health protection research unit: chemical & radiation threats & hazards - biomarkers
- P11-TU Lindsay Beaton-Green: Retrospective biodosimetry of an occupational overexposure - case study
- P12-TU Sandrine Roch-Lefevre: A mouse model of cytogenetic analysis to evaluate radiation dose exposure and contamination
- P13-TU Istvan Turai: How has the International Co-Operation started? – The first IAEA/CRP in cytogenetic & EPR biodosimetry, 1998-2001
- P14-TU Shin Toyoda: Variation of the sensitivity of the ESR dosimetric signal and of the intensity of the interfering signal in deciduous teeth

- P15-TU Laurence Roy: WP3 education, training and quality of the dosimetry network
- P16-TU Farrah Flegal: Validation by intercomparison of the cytokinesis-block micronucleus assay by imaging flow cytometry for rapid biodosimetry
- P17-TU Barjor Gimi: Phosphorus zero echo time imaging of tooth enamel
- P18-TU Natalia Ossetrova: Acute radiation sickness severity scoring system for biodosimetry and injury assessment in nonhuman primate total-body irradiation model with limited and full supportive care for biodosimetry and injury assessment

RESPONSE PLANNING – 1

Chairs: Judith Bader and Lester Huff

- 12:15 – 12:35PM O-6-TU Eugene Demidenko: Estimation of radiation dose using time to emesis adjusted for possibility of no vomiting
- 12:35 – 12:45PM O-7-TU Arif Ali: Emesis as a screening diagnostic for low dose rate (LDR) total body radiation exposure
- 12:45 – 1:05PM O-8-TU Guy Garty: Irradiation systems for realistic exposure scenarios
- 1:05 – 1:25PM O-9-TU Natalia Ossetrova: Evaluation of nonhuman primate total-body irradiation model with limited and full medical supportive care for biodosimetry and injury assessment
- 1:25 – 1:45PM O-10-TU H. Michael Stewart, Jr.: Establishing a Department of Defense radiation biodosimetry network
- 1:45 – 2:05PM O-11-TU William Blakely: DOD multi-parametric biodosimetry network: AFRRRI and NDC initial concept of operations
- 2:05 – 2:15PM **BREAK**

RESPONSE PLANNING – 2

Chairs: Michael Stewart and Matthias Port

- 2:15 – 2:35PM O-12-TU Ruth Wilkins: The imaging flow cytometry cytokinesis-block micronucleus assay for radiation biodosimetry
- 2:35 – 2:55PM O-13-TU Peter Rogan: Automated discrimination of dicentric and monocentric chromosomes by machine learning-based image processing
- 2:55 – 3:15PM O-14-TU Horst Romm: The WHO BioDoseNet image repository for dicentric assay
- 3:15 – 3:35PM O-15-TU Sally Amundson: Biodosimetry beyond simple exposures
- 3:35 – 3:50PM O-16-TU Elizabeth Ainsbury: Uncertainty analysis methods for emergency biodosimetry
- 3:50 – 4:00PM O-17-TU Joan Knoll: Radiation dose estimation by automated chromosome biodosimetry
- 4:00 - 4:15PM Buses depart Hanover Inn
- 4:30 – 8:30PM **Dinner/Social Event** - *BBQ and entertainment at Swartz/Flood residence, Lyme New Hampshire*

Wednesday – October 7 - Hanover Inn

THE EUROPEAN NETWORK FOR BIOSIMETRY (RENEB): ITS ACCOMPLISHMENTS AND FUTURE PLANS

Chairs: Eric Daxon and Laurence Roy

(Parallel session)

8:00 – 10:00AM

O-1-W: Andrzej Wojcik: European networking in biological dosimetry: results of two performance intercomparisons carried out within the RENEB project

O-2-W Ursula Oestreicher: Results of a global inter-laboratory comparison on the dicentric chromosome assay in the frame of the European network of biodosimetry

O-3-W Francois Trompier: Investigation of the influence of calibration practices on cytogenetic laboratory performance for dose estimation within RENEB

O-4-W Julie Depuydt: Lessons learned from the Inter-laboratory comparisons for the micronucleus assay in the frame of the European network of biodosimetry

O-5-W Jayne Moquet-Bricknell: The second gamma-H2AX inter-comparison exercise carried out in the framework of the European Project - realising the European network of biodosimetry (RENEB)

O-6-W Laure Piqueret-Stephan: On the potential of new biodosimetry techniques: detection of dicentric chromosomes with telomere and centromere (TC) staining in metaphases and PCC - optimization and comparison to the current gold standard method

O-7-W Georgia Terzoudi: Triage biodosimetry using centromeric / telomeric PNA probes and giemsa staining to score dicentrics or excess fragments in non-stimulated lymphocyte prematurely condensed chromosomes

O-8-W Matthias Port: Examining radiation induced in vivo and in vitro gene expression changes of the peripheral blood in different laboratories for biodosimetry purposes

O-9-W Ulrike Kulka: RENEB - the future

USING EPR FOR ARCHEOLOGICAL DATING AND OTHER EPR STUDIES

Chairs: Oswaldo Baffa and Amanda Burg Rech

(Parallel session)

8:00 – 8:20AM O-10-W Anne Skinner: New dates for the MSA deposits at Mumba Cave

8:20 – 8:35AM O-11-W Angela Kinoshita: The influence of manganese on equivalent dose determination in calcites

8:35 – 8:50AM O-12-W Bonnie A.B. Blackwell: Chewing on the reworking: ESR dating ungulate teeth from the paleolithic site at Pešturina, Serbia

8:50 – 9:00AM O-13-W Terrance Mensah: A new material for ESR dating? Species variation in Achatina

9:00 – 9:10AM O-14-W Min Kyu (Danny) Kim: Shell we date? ESR dating the Sangamonian Interglacial Deposits at Hopwood Farm, IL

- 9:10 – 9:30AM O-15-W Valery Khramtsov: Relationship between tumor microenvironment and oxidative stress: in vivo EPR studies
- 9:30 – 9:45AM O-16-W Yves Michael Frapart: On the way to quantitative EPR spectroscopy and imaging from in vitro to in vivo studies
- 9:45 – 10:00AM O-17-W Hitoshi Ohta: Developments of multi-extreme THz ESR and its application to multiferroic substance
- 10:00 – 10:10AM O-18-W Marie-Noëlle Amiot: Development of a new type of dosimeter “Epresize®” for EPR-dosimetry adapted to sub centimeter field size

10:00 - 10:30AM **BREAK**

10:30AM – 12:30PM POSTER 2 SESSION (includes lunch) Joint Session

Chairs: Andrzej Wojcik and Sara Della Monaca

(2 min oral presentations followed by discussions at the posters)

- P1-W Anne Skinner: Comparing ESR and OSL dates
- P2-W Oswaldo Baffa: ESR dating of Toxodon tooth from Upper Ribeira Valley, São Paulo, Brazil
- P3-W Angela Kinoshita: ESR dating of teeth of Smilodon populator from Toca de Cima do Pilão, Piauí, Brazil
- P4-W Kalyani Gopalkrishna: ESR dating ungulate tooth enamel found in the mousterian layers at Velika Balanica, Serbia
- P5-W Daniel Samaga: Pitfalls of stochastic biomarkers: disregarding intrinsic variance
- P6-W Marco Valente: In vivo exposure of a large nonhuman primate - a cytogenetic dosimetry study
- P7-W Albrecht Wieser: Analysis of the EPR spectrum of gamma exposed gorilla glass
- P8-W Cinzia De Angelis: Variability of the dosimetric EPR response of gorilla glass touchscreen to dose and to light
- P9-W Bernard Gallez: Influence of dental restorative materials on the dosimetric signal in retrospective tooth dosimetry
- P10-W Amanda Burg Rech: Ammonium tartrate multi-frequency electron paramagnetic resonance study
- P11-W Amanda Burg Rech: Investigation of lithium, sodium and potassium compounds for ESR dosimetry
- P12-W Marina Di Giorgio: Automatic detection of mitosis and nuclei from cytogenetic images by CellProfiler software for mitotic index estimation
- P13-W Akira Furukawa: The project of another low-cost metaphase finder
- P14-W Manuel Higuera Hernandez: Bayesian cytogenetic dose estimation for partial body irradiation
- P15-W Lai Kwan Ho: Improvement of the throughput of the dicentric chromosomal scoring process using the pre-selection of FISH-centromeres

- P16-W Tomisato Miura: Comparison of the cell-cycle progression index and ring chromosome for dose estimation using simulated human peripheral blood partial-body irradiation in the premature chromosome condensation assay
- P17-W Georgia Terzoudi: Biological dosimetry following high dose whole or partial body exposure using caffeine for G2-checkpoint abrogation in peripheral blood lymphocytes
- P18-W Farideah Zakeri: The cytokinesis-blocked micronucleus assay: application in radiation biodosimetry
- P19-W Adayabalam Balajee: Effects of radiation quality on inter and intra chromosomal aberrations in human lymphocytes
- P20-W Marina Di Giorgio: Flt3 ligand as a biomarker for victim categorization in radiation mass casualties and for therapeutic applications in clinical use
- P21-W Mark Tseytlin: Rapid scan EPR tooth dosimetry
- 12:30 -1:30 PM **IABERD - Business Meeting**
Hanover Inn
Organizer - Philippe Voisin

Free afternoon and evening

Thursday – October 8 - Hanover Inn

BIOLOGICALLY-BASED BIODOSIMETRY: ADVANCES IN METHODS AND RESULTS

Chairs: Horst Romm and Helen Turner

- 8:00 – 8:25AM O-1-TH Adayabalam Balajee: Microvesicle isolation and purification for radiation Biodosimetry in a Mass Casualty Event
- 8:25 – 8:40AM O-2-TH David Bolduc: Development of a predictive radiation risk and injury categorization (RRIC) algorithm for H-ARS using a minipig model
- 8:40 – 8:50AM O-3-TH Soheir Korraa: Markers of neural degeneration and regeneration in blood of cardiac catheterization personals
- 8:50 – 9:00AM O-4-TH Jin Kyung Lee: Reviewing cumulative results of blood cell counts (CBC): a reliable and feasible tool to protect worker's overall health and safety
- 9:00 – 9:10AM O-5-TH Evgenia Tolstykh: Strontium exposure: do stable chromosome aberrations in lymphocytes truly indicate bone marrow doses in Techa River residents?

PHYSICALLY-BASED BIODOSIMETRY: PART 1- ADVANCES IN NAIL DOSIMETRY

Chairs: Francois Trompier and Lindsey Beaton-Green

- 9:10 – 9:20AM O-6-TH Oleg Grinberg: Aperture resonators for in vivo EPR dosimetry
- 9:20 – 9:30AM O-7-TH Kyo Kobayashi: Assessing various processing methods to optimize the detection of the stable radiation induced signal (RIS) in nail clippings
- 9:30 – 9:40AM O-8-TH Stephen McKeever: Toward a protocol for X-band EPR dosimetry using human fingernails

9:40 – 9:50AM O-9-TH Kouichi Nakagawa: An innovative 9 GHz EPR surface detection method – its application to non-invasive human fingers and nails investigation

9:50 – 10:00AM O-10-TH Sergey Petryakov: Surface dielectric resonators for X-band EPR spectroscopy

10:00 - 10:30AM **BREAK**

PHYSICALLY-BASED BIODOSIMETRY: PART 2- ADVANCES IN TOOTH/BONE DOSIMETRY

Chairs: Ichiro Yamaguchi and Pawel Budzioch

10:30 – 10:40AM O-11-TH Tamar Sanikidze: Role of the free radicals in mechanisms of gallstones formation

10:40 – 10:50AM O-12-TH Sergey Sholom: UV-related EPR signals in nails and their possible application in an emergency dosimetry technique with nails

10:50 – 11:00AM O-13-TH Dmitriy Tipikin: Possible nature of the stable radiation-induced signal in nails: high-field EPR, confirming chemical synthesis, quantum chemical calculations

11:00 – 11:10AM O-14-TH Francois Trompier: Q-band EPR investigation of UV irradiated human fingernails

11:10 – 11:20AM O-15-TH Sara Della Monaca: Effect of laser treatments on the dosimetric EPR properties of teeth

11:20 – 11:30AM O-16-TH Gaixin Du: Factors related to normal variations in background signals detected by EPR in unirradiated teeth

11:30 – 11:40AM O-17-TH Alexander Ivannikov: Determination of the average native background and the light induced EPR signals and their variation in the teeth enamel based on large-scale surveys of the population of different regions

11:40 – 11:50AM O-18-TH Minoru Miyake: In-vivo radiation dosimetry using portable L band EPR -on-site measurement from volunteers in Fukushima Prefecture, Japan

12:00 – 2:00PM **POSTER 3 SESSION (includes lunch)**

Chairs: Albrecht Wieser and Wilson Schreiber

P1-TH Hoon Choi: The effect of moisture on spectrum of fingernail/EPR dosimetry

P2-TH Paola Fattibene: Effects of hardening and antimycotic topical treatments on the EPR signal properties of human nails

P3-TH Oleg Grinberg: Survey of in vivo resonators for physically-based electron paramagnetic resonance (EPR) dosimetry

P4-TH Stephen McKeever: Stability of X-band EPR signals from fingernails under vacuum storage

P5-TH Sergey Sholom: Emergency EPR and OSL dosimetry with table vitamins and minerals

P6-TH Dmitriy Tipikin: In-vitro investigation of different modes of nails cutting: blade cutting minimizes mechanically induced signal in nails

P7-TH Sara Della Monaca: Is the OSL signal from nail clippings of toe- and fingernails due to silicates from contaminating dust?

- P8-TH Steven Swarts: Electron paramagnetic resonance study of UVA-induced and radiation-induced signals (RIS) in fingernails: Comparative dose-response and potential application for calibrating the RIS
- P9-TH Mallory Guy: Improving the sensitivity of a W-band longitudinally detected EPR set-up
- P10-TH Lihuang Zhu: Parameters study of frequency-modulated CW EDMR in phosphorus doped silicon at low magnetic field
- P11-TH Timothy Raynolds: Rapid-scan and direct-detect software development
- P12-TH Yasuhiro Nakai: Comparison of noise in EPR measurement due to different environmental conditions
- P13-TH Kassym Zhumadilov: EPR dosimetry study for population residing in the vicinity of fallout trace of nuclear test in 7, August 1962
- P14-TH Maciej Kmiec: Simulation driven design of EPR tooth dosimetry instrumentation
- P15-TH Kwon Choi: Electron paramagnetic resonance dosimetry using synthetic hydroxyapatite
- P16-TH Oswaldo Baffa: Electron spin resonance (ESR) dosimetry in dose assessment at the nuclear plant of Angra dos Reis, Rio de Janeiro, Brazil
- P17-TH Amanda Burg Rech: Preliminary Studies of the “Epresize®” dosimeter for small field radiation

PHYSICALLY-BASED BIODOSIMETRY: PART 3 - ADVANCES IN TOOTH/BONE DOSIMETRY

Chairs: Wojciech Froncisz and Minoru Miyake

- 2:00 – 2:10PM O-19-TH Ke Wu: X-band EPR in vivo bio-dosimeter - from concept to reality
- 2:10 – 2:20PM O-20-TH Periannan Kuppusamy: Intensity standard for L-band EPR tooth dosimetry
- 2:20 – 2:30PM O-21-TH Philippe Leveque: Comparison of Monte-Carlo simulation and EPR/CT imaging for retrospective dosimetry in heterogeneous bone tissue
- 2:30 – 2:40PM O-22-TH Toshitaka Oka: Electron spin resonance dosimetry using deciduous teeth of Japanese children
- 2:40 – 2:50PM O-23-TH Wilson Schreiber: Flexible, wireless, inductively coupled surface coil resonators for EPR tooth dosimetry
- 2:50 – 3:00PM O-24-TH Victoria Satinsky: EPR tooth dosimetry wireless resonator technology: bridging the gap from engineering concept to in vivo testing
- 3:00 – 3:10PM O-25-TH Elena Shishkina: Dose reconstruction in tooth enamel of Techa riverside residents
- 3:10 – 3:30PM **BREAK**

PHYSICALLY-BASED BIODOSIMETRY: PART 4 - ADVANCES IN EPR DOSIMETRY

Chairs: Steve Swarts and Victoria Satinsky

- 3:30 – 3:40PM O-26TH Ichiro Yamaguchi: L band EPR tooth dosimetry for neutron and heavy ion

3:40 – 3:50PM O-27-TH Bartlomiej Ciesielski: The effect of background signal and its representation in deconvolution of EPR spectra on accuracy of EPR dosimetry in bone

3:50 – 4:10PM O-28-TH Pawel Budzioch: Modern, compact L-band EPR transceiver optimized for tooth dosimetry

4:10 – 4:30PM O-29-TH Paola Fattibene: Influence of environmental parameters on the dosimetric EPR response of gorilla glass touchscreen glass

4:40 – 5:00PM GENERAL DISCUSSION ON THE MEETING– WHAT IS NEXT? WHAT IS NEEDED?

Chair: Hal Swartz

5:20PM Buses depart from Hanover Inn

5:30 – 9:00PM **Closing Dinner/Social Event** - *AVA Art Gallery, Lebanon, New Hampshire*