Session 1 Keynote Address/Internal Dosimetry Chair: W. Burnett, Florida State University Colonial Room

Tuesday 8:00-8:10 Heyward Coleman Environmental Physics, Inc. 8:10-8:20 Joseph P. Riley Mayor of Charleston 8:20-9:00 Keynote Address: Prof. Ron Kathren Washington State University 9:00-9:20 Judith Foulke and Daniel J. Strom DOE and Pacific Northwest National Laboratory 9:20-9:40 Son N. Nguyen Lawrence Livermore National Laboratory 9:40-10:00 R.E. Filipy, D.B. Stuit, S.E. Glover, S.P. Grytdal, R.H. Filby, R.L. Kathren, V.F. Khokhryakov, K.G. Suslova, E.E. Aladova, I.A. Orlova, Welcome to the 43rd Conference or Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference or Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference or Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference or Bioassay, Analytical, and Environmental Radiochemistry Welcome to the 43rd Conference or Bioassay, Analytical, and Environmental Radiochemistry Ultimate Bioassay? DOE's Proposed Standard for Internal Dosimetry Internal Dosimetry Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S.
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Suslova, E.E. Aladova, I.A. Orlova, (DRMIA) and the U.S.
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and V.I. Chernikov Transuranium and Uranium
U.S. Transuranium and Uranium Registries (USTUR)
Registry
Dosimetry Registry of the Mayak
Industrial Association
10:00-10:20 Coffee Break
Vendor Display Area

Session 2 Environmental Assessment Chair: Larry Robinson, Florida A&M University Colonial Room

Day/Time	Author/Co-Authors	Title of Abstract
	Affiliation	
Tuesday		
10:20-10:40	Evgeny Kontar and Bill Burnett	Fate of Chernobyl Radionuclides in
	P.P. Shirshov Institute of	Black Sea Sediments
	Oceanology (Moscow) and Florida	
	State University	
10:40-11:00	Carl T. Bishop, J.R. Wise, J.M.	Uranium in Airborne Particulates at
	Byrne, and P.A. Tetsuwari	Fernald Using "Dynaweb" Filters
	Fluor Daniel Fernald	
11:00-11:20	Greg Smith, Mike Schultz, Bill	Optimization of a Sequential
	Burnett, and Ken.G.W. Inn	Extraction Method for Soils and
	Florida State University and NIST	Sediments: Development of the
		NIST Standard Sequential
		Extraction Protocol
11:20-11:40	G. Timothy Jannik	Critical Radionuclide/Critical
	Westinghouse Savannah River	Pathway Analysis for the Savannah
	Company	River Site
11:40-12:00	Jon P. Martin, K.J. Odell	Emergency Radiochemical Analysis
	Magnox Electric Plc (UK)	Methodology and Performance
12:00-1:30	Conference Luncheon	History of the Savannah River Site
	Gold Room	
	Invited Speaker: William Reinig	

Session 3 Naturally-Occurring Radionuclides Chair: John Griggs, Canada Radiation Protection Bureau Colonial Room

Day/Time	Author/Co-Authors	Title of Abstract
	Affiliation	
Tuesday		
1:30-1:50	J. Oliveira, <u>Barbara Mazzilli,</u>	Determination of Natural
	M.H.O. Sampa, and E. Bambalas	Radioactivity in Public Water
	Instituto de Pesquisas Energeticas e	Supplies of the State of Sao Paulo
	Nucleares (Brazil)	
1:50-2:10	Donna M. Beals, Bill Winn, and	Analysis of the Ra-226/228 Isotope
	Miles Denham	Ratio to Determine the Source of
	Savannah River Technology Center	Elevated Radium in the
		Groundwaters Below an Old Coal
		Pile
2:10-2:30	Michael G. Cantaloub, J.F.	The Determination of Rn Partition
	Higginbotham, and L. Semprini	Coefficients for Several Liquid
	Oregon State University	Scintillation Cocktails
2:30-2:50	Katherine M. Ellis, Richard P.W.	Evaluation of the "Challenger"
	Nelson, John N. Smith, and Brad	Pump for Radionuclide
	Moran	Oceanographic Sample Collection
	Bedford Institute of Oceanography	
	and University of Rhode Island	
2:50-3:10	T.L. Rucker and C.M. Johnson	Calculation of Uranium Isotopic
	Science Applications International	Activity Composition Based on
	Corporation	Data from Various Assay Methods
3:10-3:30	Coffee Break	
	Vendor Display Area	

Session 4 In-Vivo Analyses/Radiation Protection Chair: Barry Stewart, Environmental Physics, Inc. Colonial Room

Day/Time	Author/Co-Authors	Title of Abstract
-	Affiliation	
Tuesday		
3:30-3:50	Gary H. Kramer	Considerations in Assigning Dose
	Canada Radiation Protection	Based on Uncertainties from In
	Bureau	Vivo Counting
3:50-4:10	Gary H. Kramer, Barry Hauck, and	Comparison of the LLNL and
	Steve Allen	JAERI Torso Phantoms Using Four
	Canada Radiation Protection	70 mm Ge Detectors and Four
	Bureau and Cameco Corp.	Phoswich Detectors
4:10-4:30	Gary H. Kramer, Linda Burns, and	Lung Counting: Evaluation of
	Suzanne Yiu	Uncertainties in Lung Burden
	Canada Radiation Protection	Estimation Arising from a
	Bureau	Heterogeneous Lung Deposition
		Using Monte Carlo Code
		Simulations
4:30-4:50	N. A. Teasley and L.D. Bible	Twelve Years of Radiation
	Oak Ridge National Laboratory	Monitoring of Deer on the Oak
		Ridge Reservation (1985-Present)
4:50-5:10	P. A. Scofield and F.R. O'Donnell	Individual and Collective Effective
	Oak Ridge National Laboratory	Dose Equivalents Associated with
		Consumption of Venison Obtained
		from Deer Hunts on the Oak Ridge
		Reservation
	Open Evening	

Session 5 Radioanalytical Method Development Chair: Brian Crandall, Westinghouse Savannah River Co. Colonial Room

Day/Time	Author/Co-Authors Affiliation	Title of Abstract
Wednesday	1222	
8:00-8:20	D. R. Corbett, Bill Burnett, and	Simple Technique for the
	W.J. McCabe Florida State University and	Measurement of I-131 in Water Samples via NaI Detector
	Geological and Nuclear Sciences, Ltd. (New Zealand)	
8:20-8:40	Donna M. Beals, Brian S. Crandall, Wanda G. Britt, Peter D. Fledderman, Joseph P. Dugan, and Brad K. Davis Westinghouse Savannah River Co. and Bechtel Savannah River Co.	Surface and Groundwater Analyses Using Solid Phase Extraction Disks
8:40-9:00	Roger Wong, Bill Burnett, Brian Crandall, and Sue B. Clark Florida State University, WSRC, and Washington State University	Development of an Improved Assay for the Determination of Gross Alpha and Beta Concentrations in Soil by Liquid Scintillation Counting
9:00-9:20	S. Scarpitta, J. Odin-McCabe, R. Gaschott, and A. Meir Brookhaven National Laboratory	Comparative Results of Four Sr-90 Groundwater Analytical Methods
9:20-9:40	Hewitt W. Jeter Teledyne Environmental Services	Gross Alpha/Beta Proportional Counting for Samples Having High Residue Mass
9:40-10:00	Coffee Break Vendor Display Area	

Session 6 Extraction Chromatography/Separation Methods Chair: Michael Schultz, NIST and Florida State University Colonial Room

Day/Time	Author/Co-Authors	Title of Abstract
	Affiliation	
Wednesday		
10:00-10:20	M. Rodriguez, J.L. Gascon, and	Study of the Interferences in the
	J.A. Suarez	Determination of Pu, Am, and Cm
	CIEMAT (Spain)	in Radioactive Waste by Extraction
		Chromatography
10:20-10:40	Peter H. Cable and Bill Burnett	Analysis of Promethium-147 In
	QST Environmental Inc. and	Aqueous Samples
	Florida State University	
10:40-11:00	Ray A. Sigg, S.F. Peterson, and	Promethium Separations using
	D.P. DiPrete	Eichrom Ln Resin
	Westinghouse Savannah River	
	Company	
11:00-11:20	R.A. Dewberry	Measurement of Ni-63 Content in
	Savannah River Technology	Savannah River Site DWPF Glass
	Company	Product by Ni-Selective Ion
		Exchange Purification and β-
		Counting
11:20-11:40	Robert Langston, Debra Madden,	The Determination of Curium in
	and Tracey Simpson	Fecal and Chelated Urine Samples
	Lawrence Livermore National	
	Laboratory	
11:40-1:30	Lunch	
	On Your Own	

Session 7 Quality Assurance/Data Management/Statistics-1 Chair: Mo Khalil, Westinghouse Savannah River Co. Colonial Room

Day/Time	Author/Co-Authors	Title of Abstract
	Affiliation	
Wednesday		
1:30-1:50	Conference Business Meeting	
	Founder's Award Presentation	
1:50-2:10	W.E. Streets, P.C. Lindahl, J.J.	Status of Implementation of DOE's
	Marr, K.J. Parish, A.E. Scandora,	Integrated Performance Evaluation
	J.M. Copple, G.A. Anast, and J.R.	Program (IPEP)
	Dahlgran	_
	ANL and RESL	
2:10-2:30	James R. Dahlgran, P.C. Lindahl,	IPEP: The U.S. Department of
	W.E. Streets, and W.R. Newberry	Energy's Integrated Performance
	RESL, ANL, and DOE	Evaluation Program; A Tool in a
		Total Quality System
2:30-2:50	Michael K. Schultz, Kenneth G.W.	The NIST Radiochemistry
	Inn, and J.M.R. Hutchinson	Intercomparison Program NRIP:
	National Institute of Standards and	Traceability for Low-Level
	Technology	Radioanalytical Laboratories-
		Results of Year 1
2:50-3:10	Mansour Akbarzadeh, Chuan-Fu	Radiochemical Methods and
	Wu, Steven Bakhtiar	Intercomparison Programs
	WIPP Laboratory	Participation by WIPP Laboratories
3:10-3:30	Coffee Break	
	Vendor Display Area	

Session 8 Quality Assurance/Data Management/Statistics-2 Chair: Donivan Porterfield, LANL Colonial Room

Day/Time	Author/Co-Authors Affiliation	Title of Abstract
Wednesday		
3:30-3:50	Howard L. Hall and Christine	WWW-Based Information
	Choate	Distribution in the Analytical
	Lawrence Livermore National	Laboratory
	Laboratory	
3:50-4:10	P.Berard, F. Briot, D. Cavadore, L.	International Quality Controls in the
	Exmelin, R. Fottorino, <u>F. Nguyen</u>	Field of Radiotoxicological Bioassy
	PROCORAD (France)	
4:10-4:30	Jon A. Broadway, Donald A.	Assessment of Performance Testing
	Chambless, and Richard E.	Results in 1997 and Response to
	Malenfant	Laboratory Questionnaire
	International Corps on the	
	Environment (ICE)	
4:30-4:50	Thomas M. Semkow	Is the Average of Detected Counts
	New York State Dept. Health	a Good Measure of the Dispersion
		of Radioactivity Measurements?
6:00-11:00	Beach Party	
	Citadel Beach House	
	Sullivan's Island	
	Buses Depart Beginning at 5:30pm	

Session 9 (Concurrent with Session 10) Bioassay/Environmental Analytical Techniques Chair: Robin Young, Westinghouse Savannah River Co. Calhoun Room

Day/Time	Author/Co-Authors Affiliation	Title of Abstract
Thursday	TIMINU	
8:00-8:20	J.G. Griggs and MARLAP	Multiagency Radiation Laboratory
	Workgroup Members	Protocols (MARLAP) Manual
	EPA, DOE, NRC, DOD, NIST,	
	others	
8:20-8:40	C. Mitchell Abbate, John	Simultaneous Determination of Ra-
	Eisenmenger, Gretchen Baer, and	226 and Ra-228 by Liquid
	Doug Sawtelle	Scintillation Counting
	WASTREN-Grand Junction	
8:40-9:00	Donivan R. Porterfield	Assessment of Low-Level
	Los Alamos National Laboratory	Plutonium in Urine QC Sample
		Results by Thermal Ionization Mass
		Spectrometry (TIMS)
9:00-9:20	Seth D. Shulman	A Compact Liquid Scintillation
	Bioscan, Inc.	Counter for Benchtop and Field Use
9:20-9:40	J. W. Collins, S. Dunston, Angel D.	The U.S. Army Bioassay Program
	Christman, MAJ Maguire, MD, and	for Internally Deposited
	1LT K. Guiberson	Radionuclides
	USACHPPM, MHPP, OEMP,	
	RCCCD	
9:40-10:00	Coffee Break	
	Drayton Room	

Session 10 (Concurrent with Session 9) Environmental Studies-1 Chair: Myint Thein, ORNL Pinkney Room

Day/Time	Author/Co-Authors Affiliation	Title of Abstract
Thursday		
8:00-8:20	Barbara M. Gillespie, Gregory W.	Iodine-129 in Onsite and Offsite
	Patton, and Robert A. Kiddy	Samples at Hanford
	Pacific Northwest National	
	Laboratory	
8:20-8:40	John R. Meriwether, Carey	The Effect of Diagenetic Processes
	Hardaway, Wei-jenq Sheu, Joseph	on the Radiochronology of Soft
	Sneddon, and James N. Beck	Sediments Using ²¹⁰ Pb and ¹³⁷ Cs
	University of Southwestern	
	Louisiana, McNeese State	
	University, and Nicholls State	
-	University	
8:40-9:00	W.H. Carlton, <u>G.T. Jannik</u> , and	Radiological Impact of 1996
	A.A. Simpkins	Operations at the Savannah River
	Westinghouse Savannah River	Site
	Company	
9:00-9:20	I.L. Larsen, <u>F. Essien</u> , L.Robinson,	Radionuclide Distribution in Soils
	and J. Weaver	Periodically Treated with Multiple
	ORNL and Florida A&M Univ.	Sewage Sludge
9:20-9:40	Tim A. DeVol, <u>J.E. Roane</u> , and	Measurement of Radionuclides in
	R.A. Fjeld	Reactor Coolant Water by Ion
	Clemson University	Chromatography and On-Line/Off-
		Line Scintillation Counting
9:40-10:00	Coffee Break	
	Drayton Room	

Session 11 (Concurrent with Session 12) New/Improved Radioanalytical Techniques Chair: Donna Beals, Westinghouse Savannah River Co. Calhoun Room

Day/Time	Author/Co-Authors	Title of Abstract
	Affiliation	
Thursday		
10:00-10:20	<u>Donivan R. Porterfield</u> , George H.	A New Tool in the Evaluation of
	Brooks, Sammy R. Garcia, Yolanda	Gamma-Ray Spectral Analysis
	I. Giles, Nancy L. Koski, and Bret	Software
	L. Lockhart	
	Los Alamos National Laboratory	
10:20-10:40	P.N. Koch, L. W. Hatcher, and J.D.	Active Shielding Techniques
	Batchelor	Applied to Gamma Spectroscopy
	Bechtel Nevada	and Their Costs vs. Benefits
10:40-11:00	Steven A. Kreek, D. Beckedahl, J.	Real-Time Digital Signal Processing
	Kammeraad, A. Friensehner, J.	for HPGe Detectors
	Blair, B. Payne, and A. Goldberger	
	LLNL and Lockheed Martin	
11:00-11:20	Neil M. Barss, R. Thomas Bell III,	²³⁹ Pu Intercomparison of ICP-MS,
	David E. McCurdy, Leenu E.	TIMS and FTA at µBq levels
	Kuruvilla, and Kenneth G.W. Inn	, 1
	DOE, OIHP (EH-63), YAEL, NIST	
11:20-11:40	D.P. Diprete, S.F. Peterson, and	Gross Alpha Measurements using
	R.A. Sigg	Extraction Chromatography in
	Westinghouse Savannah River	Conjunction with Pulse Shape
	Company	Analysis on Savannah River Site
	1 7	High Activity Waste Solutions
11:40-12:00	Zenon Pawlak and Gabriela	A Comparison of the Inductively
	Kuswik-Rabiega	Coupled Plasma Mass Spectroscopy
	Utah Department of Health	/ICP/MS/ and Radiochemical
	1	Techniques of Total Uranium in
		Ground Water and Environmental
		Water Samples
12:00	End of Conference	1
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Session 12 (Concurrent with Session 11) Environmental Studies-2 Chair: Gary Kramer, EPA NAREL

Pinkney Room

Day/Time	Author/Co-Authors Affiliation	Title of Abstract
Thursday		
10:00-10:20	Walter Kubilius, Brian Crandall, Terrence Killeen, and James Westmoreland Westinghouse Savannah River Company and Environmental Physics, Inc.	Causes of Radiological False Positives in Environmental Soil and Groundwater Data From Commercial Laboratories
10:20-10:40	Stephanie Woolf DOE	From a Chemist to an Environmental Compliance Officer: Waste Management and Additional Environmental Compliance Issues at the U.S. DOE's Radiological and Environmental Sciences Laboratory
10:40-11:00	Bahman Parsa NJ State Department of Health	Contribution of Short-Lived Radionuclides to Alpha-Particle Radioactivity in Drinking Water and Their Impact on the Safe Drinking Water Act Regulations
11:00-11:20	R. Garcia, R. Rosson, and B. Kahn Georgia Institute of Technology	Microwave-Assisted Decomposition of Environmental Samples Coupled to Classical methods of Separation and Purification for the Analysis of 90Sr and 238,239Pu
11:20-11:40	J.H. Aldstadt, <u>K.A. Orlandini</u> , L.L. Smith, K.M. Hoffmann, D.C. Seely, and I.R.Shaw-Epperson ANL, 3M Company, and Advance Possis, Inc.	A System for Rapid Water Sampling and Analysis Based on Empore Membranes and Solid Scintillation Spectrometry
11:40-12:00	Robert C. Hochel Westinghouse Savannah River	Automated Radiological Scanning of Potentially Contaminated Railroad Crossties for Free-Release or Disposal
12:00	End of Conference	•