Welcome to the 43rd Annual Bioassay Conference

The sponsors, organizing committee and participating vendors welcome you to the 43rd Annual Conference on Bioassay, Analytical, and Environmental Radiochemistry. This year our organizing committee has prepared a comprehensive schedule of technical presentations on important current issues as well as a full schedule of social functions. We hope that this year’s conference will give us all the opportunity to exchange ideas and concepts that will lead to overall improvement in the quality of our scientific work, and will provide a social setting that will enable us all to get to know each other better.

This year’s format will follow closely to that of Bioassay Conferences over the past several years. There will be Technical Workshops on Sunday and Monday, and the Bioassay Conference will begin on Tuesday.

Social activities will begin Sunday evening with a reception sponsored by Canberra Industries, Eichrom Industries, and Environmental Physics, Inc. which will be held at Environmental Physics. Bus transportation from the Francis Marion will be provided. The next major function will be the vendor reception on Monday night at the Francis Marion that is being sponsored by Eichrom Industries. Canberra Industries and Packard Instruments will sponsor a luncheon at the Francis Marion on Tuesday, and the final social function will be the Conference Beach Party on Wednesday evening on Sullivans Island. Bus transportation from the Francis Marion Hotel will be provided.

In addition to these major functions, there will be a number of other social events. Continental Breakfast will be served each morning of the conference at the Francis Marion. There will be a Golf Tournament on Sunday morning that is being coordinated by Brian Crandall of Westinghouse Savannah River Company. There will be a complimentary hospitality suite at the Francis Marion on Tuesday night sponsored by Nuclear Technologies. There will be a Fun Run/Walk on Wednesday morning coordinated by Nancy Slater of Environmental Physics. And last, but certainly not least, there will be a special walking tour of Charleston for spouses on Tuesday morning that will be coordinated by my wife Charlotte.

During your stay, we encourage you to take advantage of the many attractions of Historic Charleston. The Francis Marion is within walking distance of the old sections of Charleston and you are only minutes away from charming alleys, beautiful anti-bellum homes, and an abundance of world-class restaurants.

We have included in your binder a map of the historic district of Charleston and some information on some of its fine restaurants and intriguing sites. Several restaurants have been chosen by the committee on the basis of quality and location and they have agreed to give special discounts to conference attendees. These restaurants are listed in the attached information. The Charleston Chamber of Commerce has kindly offered to maintain a booth in the conference registration area with information on Charleston and its many wonders.

We would like to give special thanks to our coordinators, sponsors, vendors, and speakers for their diligent efforts to make the 43rd Conference the best ever.

Sincerely yours,

Heyward H. Coleman
President, Environmental Physics
Conference Chairman
Sponsors

- Environmental Physics, Inc.
  Charleston, SC
- Westinghouse Savannah River Company
  Aiken, SC
- Florida State University
  Tallahassee, FL
- Eichrom Industries, Inc.
  Darien, IL
- College of Charleston
  Charleston, SC

Coordinating Committee

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<th>Conference Chairman</th>
<th>Heyward H. Coleman</th>
<th>Environmental Physics, Inc.</th>
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<tr>
<td>Vendor Chairman</td>
<td>Mike Fern</td>
<td>Eichrom Industries</td>
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<td>Technical Program Chairman</td>
<td>Dr. Bill Burnett</td>
<td>Florida State University</td>
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<tr>
<td>Workshop Chairman</td>
<td>Dr. Mohib (Mo) Khalil</td>
<td>Westinghouse Savannah River</td>
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<tr>
<td>Coordinating Chairman</td>
<td>Nancy Slater</td>
<td>Environmental Physics, Inc.</td>
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<tr>
<td>Workshop Program</td>
<td>Brian Crandal</td>
<td>Westinghouse Savannah River</td>
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<td>Technical Program</td>
<td>Dr. Frank Kinard</td>
<td>College of Charleston</td>
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<tr>
<td>Social Program</td>
<td>Max Sparwasser</td>
<td>Environmental Physics, Inc.</td>
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<tr>
<td>Internet Home Page</td>
<td>Donivan Porterfield</td>
<td>Los Alamos National Laboratory</td>
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Vendors

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<td>Nuclear Technical Assoc.</td>
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<td>Outreach Laboratory</td>
<td>Oxford Instruments</td>
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<td>Protean Instrument Corporation</td>
<td>Thermo NUTEch</td>
<td>TVA Radiological Services</td>
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<td>QST Environmental</td>
<td>Quanterra</td>
<td>Nuclear Technology Services</td>
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<td>Pulcif. Inc.</td>
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Session Chairmen

| Bill Burnett                    | Larry Robinson          | Frank Kinard               |
| Myint Thein                    | Brian Crandal           | Mike Schultz               |
| Mo Khalil                      | Donivan Porterfield     | Robin Young                |
| Barry Stewart                  | Donna Beals             | Gary Kramer                |
### 43rd Annual Bioassay Conference Schedule of Events
November 9-13, 1997  Charleston, South Carolina

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<tr>
<th>Sunday, November 9</th>
<th>Monday, November 10</th>
<th>Tuesday, November 11</th>
<th>Wednesday, November 12</th>
<th>Thursday, November 13</th>
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<tbody>
<tr>
<td>7:15—until Golf Outing</td>
<td>8:00-9:00 Continental Breakfast</td>
<td>9:15—until Spouse Program--Tour of Charleston and Lunch</td>
<td>6:15 am Historic Charleston Fun Run/Walk Sponsored by Environmental Physics, Inc.</td>
<td>7:00-8:00 Continental Breakfast Mezzanine Level</td>
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<tr>
<td>Mezzanine Level</td>
<td>Continental Breakfast Mezzanine Level</td>
<td>7:00-8:00 Continental Breakfast Colonial Room</td>
<td>7:00-8:00 Continental Breakfast Colonial Room</td>
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<tr>
<td>8:00-7:00 pm</td>
<td>7:30-5:00 Conference Registration and Information Mezzanine Level</td>
<td>7:30-5:00 Conference Registration and Information Mezzanine Level</td>
<td>7:30-3:30 Conference Registration and Information Mezzanine Level</td>
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<tr>
<td>Conference Registration</td>
<td>9:00-12:00 Workshops Colonial Room</td>
<td>8:00-12:00 Technical Presentations Colonial Room</td>
<td>8:00-11:40 Technical Presentations Colonial Room</td>
<td>8:00-12:00 Technical Presentations Pinkney &amp; Calhoun</td>
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<tr>
<td>and Information</td>
<td>Workshops Colonial &amp; Calhoun</td>
<td>12:00-1:30 Conference Luncheon sponsored by Canberra and Packard Gold Room</td>
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<tr>
<td>Mezzanine Level</td>
<td>12:00-1:30 Lunch On Your Own</td>
<td>11:40-1:30 Lunch On Your Own</td>
<td>11:40-1:30 Lunch On Your Own</td>
<td>12:00 End of Conference</td>
</tr>
<tr>
<td>1:30-5:30 Workshops</td>
<td>1:15-5:00 Workshops Colonial &amp; Gold</td>
<td>1:30-5:10 Technical Presentations Colonial Room</td>
<td>1:30-1:50 Business Meeting Founder's Award</td>
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<tr>
<td>Colonial &amp; Calhoun</td>
<td>6:00-9:30 Reception sponsored by Canberra, Eichrom, &amp; Environmental Physics (Buses depart from the Francis Marion beginning at 5:30)</td>
<td>5:30-7:30 Vendor Reception sponsored by Eichrom Industries Vendor Display Area</td>
<td>5:30-7:30 Complimentary Entertainment Suite sponsored by Nuclear Technology &amp; Nevada Technical Association (Suite to be Announced)</td>
<td>1:50-4:50 Technical Presentations Colonial Room</td>
</tr>
<tr>
<td>6:00-9:30</td>
<td>5:30-7:30 Vendor Exhibition Mezzanine Level</td>
<td>8:00-5:10 Vendor Exhibition Mezzanine Level</td>
<td>8:00-3:30 Vendor Exhibition Mezzanine Level</td>
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<tr>
<td>Vendor Exhibition</td>
<td>8:00-11:00 Beach Party on Sullivan’s Island (Buses depart from the Francis Marion beginning at 5:30)</td>
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Description of Social Events

Sunday 7:15 a.m.--until
Golf Outing

Sunday 6:00-9:30 p.m.
Reception at Environmental Physics, Inc. (2040 Savage Road, Charleston)
Join us at Environmental Physics, Inc. for cocktails and delicious lowcountry hors d’oeuvres. The reception is being hosted by Canberra Industries, Eichrom Industries, and Environmental Physics, Inc. Round-trip transportation will be provided, and buses will depart from the Francis Marion beginning at 5:30 p.m. Attire is casual.

Monday 5:30-7:30 p.m.
Vendor Reception located in the Vendor Display Area
Enjoy hot and cold hors d’oeuvres and an open bar while visiting the excellent displays provided by our twenty-six vendors. The vendor reception is being sponsored by Eichrom Industries.

Tuesday 9:15—until
Spouse Program
Meet in the lobby of the Francis Marion at 9:15 a.m. for a day touring Charleston with your hostess, Charlotte Coleman. First, you will visit the Charleston Visitor’s center where the DASH will take you to the Waterfront Park to begin the guided walking tour of Charleston. After the walking tour, a lowcountry seafood lunch will be provided at Hyman’s. After lunch, the group will tour the Nathaniel Russell House, one of Charleston’s finest historical landmarks. End the afternoon at the Coleman’s home for tea and coffee. Also included in the spouse program are continental breakfasts, all of the evening receptions, and the beach party.

Tuesday 12:00-1:30
Conference Luncheon in the Gold Room
The Conference Luncheon speaker is Dr. Bill Reinig, who will discuss the history of Savannah River Site. Canberra Industries and Packard Instruments are the hosts for the Luncheon.

Wednesday 6:15 a.m.
Historic Charleston Fun Run/Walk
Rise and Shine! Meet us in the lobby of the Francis Marion at 6:15 a.m. for a fun run/walk! Set your own pace for the 2.8-mile course through historic Charleston (beginning and ending at the Francis Marion). Each participant earns a t-shirt. The Fun Run/Walk is sponsored by Environmental Physics, Inc.

Wednesday 6:00-11:00 p.m.
Lowcountry Beach Party at the Citadel Beach House on Sullivan’s Island
Enjoy an evening at a Sullivan’s Island beachfront clubhouse for a lowcountry banquet featuring Frogmore Stew. The sound of the surf will be enhanced by live music by the Mike McSwain Group. Round-trip transportation is provided, and buses depart from the Francis Marion beginning at 5:30 p.m. Attire is casual.
43rd Bioassay Conference - Location of Facilities

KEY
1. Francis Marion Hotel
2. Zebo Restaurant
3. Sushi Hiro Restaurant
4. Hyman's Seafood Company
5. Taste of India

Charleston Harbor
Things to See and Do

Bicycle Rentals:
Charleston Bicycle Rentals, Inc.
48 John Street, Charleston, 29403
722-RIDE (7433)
Biking is the best way to see Charleston. Stay fit and have fun too! Ask about our free pickup and delivery to most locations in downtown Charleston. Next to the Visitor Center.

Charter Boats:
Aqua Safaris, Inc. Charter Yachts
P.O. Box 309, Isle of Palms, 29451
886-8133, 1-800-524-3444, FAX: 886-8133
Group Rates Available - yes
Affordable sailpower/fishing charter yachts, crewed and bare boat. Over 1000 yachts locally and worldwide. Day sails, golf/sail weekends, Worldwide term charters: Caribbean, Mediterranean, Greek Islands, South Pacific.

Bohicket Yacht Charters - 768-1280
Cape Romain Island Charters - 884-0448
Captain Ivan’s Island Charters - 795-9192

Charleston Charter Co.
P.O. Box 1427, Charleston, 29402
762-7900, 1-800-786-0252, ext. 335
Group Rates Available - yes
Specialize charters to meet individual/group needs - from sunset cruises to burials at sea.

Charleston Yacht Sales
3 Lockwood Blvd., Ste. 201, Charleston, 29403
577-5050, 1-800-868-5060, FAX: 723-9829
Group Rates Available - yes
We offer sailing charters aboard 35’-50’ captained yachts for 3 hours to a full day. The largest and oldest yacht broker in the Carolinas.

Fort Sumter Tours, Inc. - 722-1691
Gray Line Water Tours - 722-1112
Marsh Grass Charters, Inc.
1310 Ashley Hall Road, Charleston, 29407
556-6555
We price our charters by the number of people (up to 6). We offer bottom fishing for snapper & grouper or trolling for the big ones.

Saltwater Adventures
2412-B Marina Rd, Wadmalaw Island, SC
559-3794, PAGER: 769-1542
We offer fishing and/or pleasure charters, captained or bare boat, from under 20 to over 65 feet, for any occasion or time period.

Silver Dolphin Fishing - 556-3526
Southern Windjammer/Schooner PRIDE
2044 Wappoo Hall Road, Charleston, 29412
795-1180, FAX: 762-1342
Sail aboard Charleston’s only tall ship - the 84 foot three masted Schooner PRIDE. For those who want to have a refreshing and relaxing harbor experience.

Spört’n Life Charters
Rt. 1, Box 50-D, Wando, SC 29492
881-3179
Inshore light tackle and fly fishing. Tours and day trips available for 1-4 persons.

Wild Dunes Yacht Harbor
41st Ave. at the Intracoastal Waterway
Isle of Palms, 29451
886-5100, FAX: 886-5609
Resort marina and restaurant. Inshore-offshore fishing and sailboat charters, boat rentals and excursions. Dockside dining, private dining room, and outdoor events.

Events:
Charleston Area Arts Council
P.O. Box 21295, Charleston, 29413
566-0075
The Arts Council can provide information about the cultural opportunities available to your group while they are in Charleston.

Spoletto Festival U.S.A.
P.O. Box 157, Charleston, 29402
722-2764, FAX: 723-6383
Group Rates Available - yes
Celebrating dance, music, theater, opera, and the visual arts, from the classic to the contemporary, for 17 days in historic Charleston. Late May-early June.

Golf:
Charleston National Country Club - 884-7799
Crowfield Golf and Country Club
300 Hamlet Circle, Goose Creek, 29445
764-4618, FAX: 764-4534
Dunes West - 881-6060
Kiawah Island Resort - 768-2121 - space available

The Links at Stono Ferry
5365 Forest Oaks Dr., Charleston, 29449
763-1817, FAX: 763-1905
Charleston’s premier public golf course -15 minutes from downtown. Stono Ferry offers the full amenities of a county club at an unbeatable price!

Municipal Course - 795-6517 - public

Patriots Point Links
100 Clubhouse Drive, Mt. Pleasant, 29464
881-0042
Group Rates Available - yes
Patriots Point Links offers a scenic setting overlooking Charleston Harbor. This harborside course will challenge any level of player—a true pleasure to play.

Pine Forest Country Club
1000 Congressional Blvd, Summerville, 29483
851-1193, FAX: 851-2857
Nominated for best new golf course in South Carolina. 18 hole, par 72 championship design by Bob Spence.
Things to See and Do

Shadowmoss Plantation Golf Club
20 Dunvegan Drive, off Hwy. 61 North, Charleston, 29407
556-8251, 1-800-338-4971
Relaxing atmosphere nestled within the historic beauty of Charleston.

Seabrook Island - 768-1000 - private

Snee Farm - 884-8571 - private

Wild Dunes Resort - 886-6000

Historic Homes & Buildings:
The Charleston Museum’s Joseph Manigault House
350 Meeting Street, Charleston, 29401
723-2926, FAX: 722-1784
Group Rates Available - yes
Designed by wealthy rice planter Gabriel Manigault, built in 1803. One of the best examples of Adam-style architecture. Furnished with Charleston, American, English, and French pieces.

Nathaniel Russell House
51 Meeting Street, Charleston, 29401
723-1623

Museums & Galleries:
American Military Museum - 723-9620
The Citadel Museum - 792-6846
The City Hall Gallery

The Charleston Museum
360 Meeting Street, Charleston, 29403
722-2996, FAX: 722-1784
Group Rates Available - yes
America’s first and oldest museum that interprets the social and natural history of the South Carolina Lowcountry. Special temporary exhibits and a “Discovery Room” for children.

The Confederate Museum - 723-1541
Gibbes Museum of Art
135 Meeting Street, Charleston, 29401
722-2706, FAX: 723-1721
Offers one of the finest collections of American paintings in the Southeast, portraits, local and regional historic paintings, and portrait miniatures. Museum shop available.

Patriots Point Naval & Maritime Museum
40 Patriots Point Rd., Mt. Pleasant, 29464
884-2727
Patriots Point is the world’s largest naval & maritime museum. Five ships, including the aircraft carrier Yorktown, are open for touring. Twenty aircraft. Vietnam Naval Support Base exhibit.

Nightlife:
JukeBox
Vendue Range, Charleston, 29401
723-3431

Windjammer - 886-8596

Plantations, Parks, and Gardens:
Charles Towne Landing 1670
1500 Old Towne Road, Charleston 29407
556-4450
Birthplace of South Carolina - First permanent English settlement in South Carolina - Passive park.

Drayton Hall
3380 Ashley River Road, Charleston, 29414
766-0188, FAX: 766-0878
Considered one of the finest examples of colonial architecture in the nation. Drayton Hall is the only surviving plantation home on the Ashley River and is preserved in almost original condition after over 250 years.
Fort Sumter
1214 Middle Street, Sullivan’s Island
883-3123
Fort Sumter - first shots of the Civil War.

Magnolia Plantation and Gardens/Audubon Swamp Garden
Hwy. 61, Charleston, 29407
571-1266
Catering Services Available - yes
Group Rates Available - yes
Magnolia Plantation’s gardens have been described as the “world's most beautiful” and are planted for year-round bloom. Audubon Swamp Garden allows an up-close view of wildlife in a natural setting.

Middleton Place
Ashley River Road, Charleston, 29414
556-6020, 1-800-782-3608, FAX: 766-4460
Private Banquet Rooms Available .....................................yes
Seating Capacity .......................................................125
Meals Served ............................................................lunch
Catering Services Available ........................................yes
Group Rates Available ...............................................yes
Visit America’s oldest landscaped gardens, now celebrating 250 years, the working plantation stableyards, and the Middleton Place House museum.

Recreation:

Charleston Jewish Community Center
1645 Raoul Wallenberg Blvd., Charleston, 29407
571-6565, FAX: 556-6206
Family oriented...full size gymnasium, fitness center and nautilus circuits, contains cardiovascular room, free weights, aerobic classes, and outdoor olympic-sized pool.

Eagle Balloons
100 Broadmarsh Ct., Charleston, 29418
552-3782
Soar above the treetops, at wind’s speed for approximately one hour, and enjoy a breathtaking panoramic view of Charleston’s Lowcountry. Our pilots are FAA certified. We fly year round, weather permitting. Reservations are required. Please call for further details.

Kids on the Go
P.O. Box 44, Isle of Palms, 29451
883-9491
An invaluable family guidebook set: Kids on the Go: Great Places to Take Kids in The Charleston Area and Great Places to Dine with Kids.

St. Andrew’s Family Recreation Center
1642 Sam Rittenberg Blvd., Charleston, 29407
763-3850
A full-service health and fitness center available on a daily basis. Enjoy aerobics classes, racquetball, indoor swimming, Nautilus and free weights, cardiovascular equipment, and more.

South Carolina Stingrays
North Charleston Coliseum, North Charleston 29418
744-BAIT, FAX 744-2898
Professional Ice Hockey at the new North Charleston Coliseum. 34 home games from late October until early April.

Restaurants:

A.W. Shucks, Downtown
35 Market St. & 70 State St.
723-1151, FAX: 720-2102
Seating Capacity ..................................................225
Patio Dining Available
Patio Capacity ......................................................up to 300
Meals Served ......................................................lunch/dinner
Location .........................................................Historic Market area
Old warehouse charm . . . seafood specialties and raw bar.

Aaron's Deli - 723-6000

Applebee’s Restaurant/North Charleston - 553-8137

Applebee’s Restaurant/Charleston - 723-3531

Applebee’s Restaurant/West Ashley
1859 Sam Rittenberg Blvd., Charleston, 29407
556-6421
Seating Capacity ..................................................175
Outstanding food & service at reasonable rates in a relaxing atmosphere.

Arizona Bar & Grill - 577-5090

B. J.’s Broad Street Cafe
17 Broad Street, Charleston, 29401
722-0559
Private Banquet Rooms Available ..................................no
Seating Capacity ..................................................76
Meals Served ......................................................breakfast/lunch/dinner
Catering Services Available ........................................no
Location .........................................................Peninsula City
Great food at reasonable prices in an old Charleston setting.
Pizza, gourmet sandwiches, outstanding breakfasts, and authentic buffalo-style chicken wings. Mon.-Fri., 7:30-11p.m., Sat. 8:30-11p.m.

Baker’s Cafe of Charleston, Inc. - 577-2694

Blue Coyote Grille
61 State Street, Charleston, 29401
577-2583, FAX 720-2102
Seating Capacity ..................................................150
Patio Dining Available
Patio Capacity ......................................................up to 300
Meals Served ......................................................lunch/dinner
Location .........................................................Historic Market area
Lively Southwestern restaurant and night club featuring quesadillas, fajitas, and country line dancing.

Bocci’s Italian Restaurant
158 Church Street, Charleston, 29401
720-2121, FAX: 720-2102
Private Banquet Rooms Available ..................................yes
Seating Capacity ..................................................20
Meals Served ......................................................lunch/dinner
Group Rates Available ..............................................no
Location ..............................................................Historic Market area
Laid-back Italian dining with old world charm. Hand pulled mozzarella and pastas made on-premise contribute to both classic and contemporary dishes for a memorable meal. Voted “Top 10” locally.
Things to See and Do

Cappy's Seafood Restaurant
2408 Maybank Hwy, Johns Island, 29455
559-3552
Private Banquet Room Available..............................no
Meals Served......................................................lunch/dinner
Catering Services Available.....................................yes
Location.........................................................Island Resorts
Waterfront dining at Buzzard's Roost Marina. Enjoy our delicious, fresh local seafood or our featured Lowcountry cuisine.

Carolina's - 724-3800
Celia's Porta Via - 722-9003

Colony House Restaurant
35 Prioleau at the Waterfront Park, Charleston, 29401
723-3424, FAX: 724-3807
Private Banquet Rooms Available..............................yes
Banquet Capacity...............................................up to 200
Reception Capacity..............................................350
Meals Served......................................................lunch/dinner
Catering Services Available.....................................yes
Location.........................................................Peninsula City
Charleston's oldest, located across from the new Waterfront Park.

Tommy Condon’s Irish Restaurant and Pub
160 Church St., Charleston 29401
577-3818
Private Banquet Room Available..............................yes
Banquet Capacity...............................................60
Seating Capacity...............................................230
Meals Served......................................................lunch/dinner
Location.........................................................Historic Market area
Authentic Irish pub featuring weekend Irish sing-a-longs and great food every day.

Doe’s Pita Plus - 577-3179

82 Queen
82 Queen Street, Charleston, 29401
723-7591
Private banquet room for 30 people. Voted best restaurant by the people of Charleston, 82 Queen offers a variety of Lowcountry delicacies in a unique 18th century setting.

East Bay Trading Co. - 722-0722

Fast & French inc., Gaulart & Malicet French Cafe
98 Broad Street, Charleston, 29401
577-9797
Private Banquet Rooms Available..............................no
Meals Served......................................................breakfast/lunch/dinner
Catering Services Available.....................................yes
Group Rates Available..........................................yes
Location.........................................................Peninsula City
A contemporary Paris cafe in an 1825 building. Quality food served all day at very good prices.

French Quarter Restaurant
195 East Bay (located in Lodge Alley Inn), Charleston, 29401
722-1611, 1-800-845-1004, FAX: 722-1611, ext. 7777

Hyman's Seafood Company - 723-0233

J. Ryan's Seafood Restaurant - 763-4494

Josie Joe's on the Water
1313 Shrimp Boat Ln., Mt. Pleasant, 29464
884-0838, FAX: 884-5483
Private Banquet Rooms Available..............................yes
Meals Served......................................................lunch/dinner
Catering Services Available.....................................yes
Location.........................................................East Cooper/Mt. Pleasant
We offer a variety of seafood, salads, and sandwiches. Enjoy cocktails and appetizers by the pool. Come by land or sea and experience an unforgettable sunset.

Kyoto Japanese Restaurant - 571-6025

Le Midi - 577-5571

The Library at Vendue
23 Vendue Range, Charleston, 29401
723-0485, FAX: 722-8381
Private Banquet Facilities Available...........................yes
Meals Served......................................................dinner
Catering Services Available.....................................yes
Location.........................................................Peninsula City
Progressive American Cuisine in the Vendue Inn Library. Rooftop bar and dining overlooking the Charleston Harbor.

Little Caesars Pizza
Charleston Area
571-3764
We can handle any size party! party! Choose from our delicious original or pan pizza. Discounts on group orders.

Long Island Cafe - 886-8809

The Long Room - 722-6092

Marianne Restaurant
235 Meeting Street, Charleston, 29401
722-7196, FAX: 722-2096
Private Banquet Rooms Available..............................yes
Reception Capacity..............................................32
Meals Served......................................................lunch/dinner
Catering Services Available.....................................no
Group Rates Available..........................................yes
Location.........................................................Peninsula City
French restaurant in renovated historic building. Local fresh fish, mussels, rack of lamb, and beef. Entertainment in lounge nightly. Private banquet room for up to 32 people.

McDonald’s Hamburgers - 722-2211

Mister Donut - 553-5333

Morrison's Cafeteria - 571-6700

Noisy Oyster
7571 Rivers Ave., N. Charleston
824-1000
The best fresh, local seafood in North Charleston. From oyster puppies and alligator to deep fried lobster tails and daily specials. A rustic, nautical setting with the charm of dockside dining.

The Oriental Cuisine - 747-9812
Poogan’s Porch Restaurant
72 Queen Street, Charleston, 29401
577-2337, FAX: 722-1698
Private Banquet Rooms Available……………………………...yes
Banquet Capacity ..........................................................50
Reception Capacity .........................................................100
Meals Served .................................................................lunch/dinner
Catering Services Available..............................................yes
Group Rates Available ....................................................yes
Location .................................................................Peninsula City

Enjoy true Southern hospitality in an “Old Charleston” home,
Dine indoors or outside on our porches and patio. Fresh seafood
and Lowcountry Southern cuisine.

Primrose House Restaurant
332 East Bay Street, Charleston, 29402
723-2954
Private Banquet Rooms Available ................................yes
Seating Capacity ..........................................................40
Banquet Capacity ..........................................................40
Reception Capacity ..........................................................40
Meals Served .................................................................breakfast/lunch/dinner
Catering Services Available..............................................yes
Group Rates Available ....................................................yes
Location .................................................................Peninsula City

Small, intimate restaurant tucked into ground floor of an antebellum mansion. This off-the-beaten-path secret has a devoted international and local following. Owner-chefs.

Privateer Restaurant
1882 Andell Bluff Blvd., Johns Island, 29455
768-1290, FAX: 768-9567

R B’s Rusty Pelican - 881-0466
Reeves Bar-B-Que - 763-5798
Restaurant Million - 577-7472

Wild Wing Cafe
36 N. Market St., Charleston, 29401
722-9464
Private Banquet Rooms Available .....................................yes
Reception Capacity ..........................................................120
Meals Served .................................................................lunch/dinner
Catering Services Available ..............................................yes
Location .................................................................Peninsula City

Wide variety of “fun” foods. Nachos, quesadillas, homemade salsa and chips, PLUS 15 different flavors of “the Best Wings South of Buffalo” and the original bucket o’ beer.

S&S Cafeterias
1104 Sum Rittenberg Boulevard, Charleston, 29407
556-9420
Cafeteria dining with a choice of 18 salads and desserts, 22 vegetables, and 15 meat entrees to suit everyone’s taste.

Sadie’s Cafeteria - 553-0250
Saracen Restaurant - 723-6242
Shem Creek Bar & Grill - 884-8102

Terrible Tom’s
188 Meeting Street, Old City Market, Charleston, 29401
722-6752
Croissants, soup, sandwiches, lite lunches. World’s finest puff pastry. We will open early to accommodate your group.

The Trawler Seafood Restaurant
Hwy. 17 N., Mt. Pleasant, 29464
884-2560
Waterfront dining outside and inside, Sunset hour (happy hour), Raw-bar, Lounge-bar, Lunch-Dinner 7 days a week.

Wild Dunes Yacht Harbor/Tradewinds Restaurant
41 st Ave., at Intracoastal Waterway, Isle of Palms, 29451
886-5100, FAX: 886-5609
Private Banquet Rooms Available .....................................yes
Seating Capacity ..........................................................200
Banquet Capacity ..........................................................200
Reception Capacity ..........................................................400
Meals Served .................................................................breakfast/lunch/dinner
Catering Services Available..............................................yes
Group Rates Available ....................................................yes
Location .................................................................Island Resorts

Resort marina and restaurant. Inshore/offshore fishing and sailboat charters, boat rentals and excursions. Dockside dining, private dining room, and outdoor events.

Shopping:

Antiques
Geo. C. Birlant & Co.
171 King Street, Charleston, 29401
722-3842
Direct importers of Charleston’s largest collection of fine quality personally selected 18th and 19th century English furniture, silver, china, crystal, and brass.

Livingston & Sons Antiques, Inc. - 723-9697

Art Galleries
The Audubon Shop & Gallery - 723-6171
Things to See and Do

Virginia Fouche Bolton Art Gallery
127 Meeting Street, Charleston, 29401
577-9351
Virginia paints with unparalleled expertise and sensitivity, capturing the charm and mystery of Charleston.

Jim Booth Art Gallery
1929 Maybank Hwy., Charleston, 29412
795-8244, FAX: 795-8464
On display are original paintings, collector prints, and posters by Charleston’s own Jim Booth.

Carolina Prints & Frames - 723-2266
Courtyard Gallery - 723-9172
Gallery 12 - 723-0311
Lowcountry Artists, Ltd. - 577-9295
Anne Worsham Richardson Birds I View Gallery
119-A Church Street, Charleston, 29401
723-1276
Bird and wildlife prints and original paintings by South Carolina artist, naturalist Anne Worsham Richardson.

Department Stores
Belk - 571-5420
Condon’s - 556-3555
J. C. Penny Co. - 554-0300
Sears, Roebuck & Co. - 797-2100
Shadid’s Department Store - 577-2800

Specialty Shops
A Basket O'Carolina - 723-7777
Anne’s Dress Shop - 577-3262
Ben Silver Corporation
149 King Street, Charleston, 29401
577-4556, 1-800-221-4671, FAX: 723-1543
World’s largest selection of jewelry quality blazer buttons and authentic regimental pure English silk neckties.
Berlin’s - 722-1665
Bird Sales, Inc. - 577-5440
Bits of Lace - 577-0999
Bluestein’s Men’s Wear - 722-1738
Carolina Gifts and Seashells
1405 Ben Sawyer Blvd., Mt. Pleasant 29464
884-0320
Shells from around the world, nautical gifts, Charleston prints and souvenirs, tee shirts, salt-water taffy. Family fun for everyone!
Chapter Two Bookstore
199 East Bay St., Charleston, 29401
722-4238
Charleston’s most complete bookstore with a large collection of books on Charleston and the Lowcountry.

The Charleston Catalog Company
139 Market St., Charleston, 29401
577-7462, 1-800-533-6629, FAX: 853-8708
Southern gifts, arts and crafts, food & home accessories, with an emphasis on Made-in-Charleston products. Quantity discounts available to meeting planners and corporations.

Charleston Post Card Company - 762-0771
The Country Bumpkin - 884-8808
The Clothes Horse
289 King St., Charleston 29401
853-9636, FAX: 723-5017
Factory outlet store . . . large selection of sterling silver jewelry
Croghan’s Jewel Box
308 King St., Charleston, 29401
723-3594
A. J. Davis & Co., Inc - 577-3088
M. Dumas & Sons, Inc. - 723-8603
The Thomas Elie House - 722-2130
Bob Ellis Shoe Store - 722-2515
Elza’s, Inc. - 722-3334
Fulford-Egan Coffees & Teas
231 Meeting St, Charleston, 29401
577-4553, 1-800-736-4301
60’s style coffeehouse where artists, students, professors, etc. congregate. Comfortable atmosphere, with great coffee, live music nightly. No cover. Over 150 bulk coffees available.
Geiss & Sons Jewelers - 577-4997
Gingiss Formal Wear - 553-8470
Good Scents, Inc. - 723-6933
Gucci - 722-3788
Haagen-Dazs Ice Cream Shoppe
43 S. Market St., Charleston 29401
723-9326
We feature the best ice cream and yogurt made . . . Haagen Dazs is world renowned!
Historic Charleston Reproductions - 723-8292
Horsefeathers - 723-7995
In Good Taste
1901 Ashley River Road, Charleston
763-5597
Gourmet foods, gift ideas, fine wines, great coffee, kitchen tools, seminars, low country foods.
Kiawah General Store - 768-9541
Jack Krawcheck - 722-1776
Kuppenheimer - 572-2292
Loco Record Shop - 744-0232
Lowell’s Inc./dba Affordables - 571-0140
J.W. Luden and Co.  
Concord and Charlotte Sts., Charleston, 29402  
723-7829

Authorized Orvis dealer. Serving Charleston since 1887.  
Clothing, marine supplies, fly fishing supplies, guide services, fly fishing school.

Market Street Munchies - 722-0800

Market Street Sweets  
100 North Market St., Charleston, 29401  
722-1397, 1-800-364-2140

Handmade Southern pralines and other candies, discount incentives to conventions, free samples, gourmet gift baskets.

Mitchell's Formal Wear - 572-5863

Mori Luggage & Gifts - 763-3644

Old Charleston Joggling Board Co. - 723-4331

Jack Patla Co. - 723-2314

Polo, Ralph Lauren - 722-6657

Prescription Center, Inc. - 723-5342

R & M Sporting Goods - 766-7102

R.S.V.P. - 577-9740

The Rainbow Market Shops  
40 N. Market Street, Charleston, 29401  
The Rainbow Market is two unique interconnected buildings, one-and-a-half centuries old, filled with distinctive shops.

Scents Unlimited  
92 N. Market Street, Charleston, 29401  
853-8837

The sensible place to shop for all of your fragrance needs without spending a fortune.

Sea Level, Inc. - 722-6487

Sheila's Shamrock - 577-0833

The Shops at Charleston Place  
Located at the Omni Hotel  
130 Market Street, Charleston 29401  
722-4900

“The best shopping in the history of Charleston”, including Polo, Ralph Lauren, Gucci, Banana Republic, Talbots, Godiva, and 20 other fine shops.

The Stockpot, Inc. - 723-9063

T & T Sporting Goods - 747-5000

Symphony:

Charleston Symphony Orchestra  
14 George Street, Charleston, 29401  
723-9693, FAX: 722-3463

With internationally renowned guest artists and acclaimed music director David Stahl, the CSO performs a varied repertoire of masterworks, chamber and pops music September through May.

Theater:

Footlight Players, Inc.  
20 Queen Street, Charleston, 29401  
722-7521

Live performances Oct.-May presented in small theatre which was a cotton warehouse. Charleston's resident community theatre. Oldest (60 yrs.) community theatre in SC.

Tours:

Carriage Tours

Carolina Carriage Company, Inc.  
170 Church St., Charleston, 29401  
723-8687, FAX: 727-2797

Group Rates Available - yes

Licensed guides conduct horse-drawn carriage tours of historic Charleston. Private and group tours available.

Charleston Carriage Company  
96 N. Market Street, Charleston, 29401  
577-0042

Old South Carriage Tours  
14 Anson Street, Charleston, 29401  
723-9712

Tour guides wearing the Confederate uniform. Surrey-style carriages with 16-passenger capacity. 20% discount for adult groups of 25 or more.

Olde Towne Carriage Company  
20 Anson Street, Charleston, 29401  
722-1315, FAX: 881-4078

Twenty-five custom carriages for larger groups, weddings and private tours.

Palmetto Carriage Works, Ltd.  
40 N. Market Street, Charleston, 29401  
723-8145


Private Guide Service:

Associated Guides of Historic Charleston  
P.O. Box 545, Charleston, 29402  
724-6419

Five lifetime Charleston residents available to show you their hometown. Convention planning, private walking tours, step-on guide service for tour buses.

Charleston Guide Service  
253 St. Margaret St., Charleston, 29401  
723-9023

Guides professionally trained and versed in local lore presenting an unparalleled insight into Charleston's three centuries of history and beauty.

Charleston Strolls Guide Service  
P.O. Box 1651, Charleston, 29402  
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Tours designed especially for your groups by experienced guides. Step-on guides, walking tours, plantations, and gardens. Beaufort and Georgetown, SC.

Janice Kahn Tours  
316 Confederate Circle, Charleston, 29407  
556-0664

Group Rates Available - yes

Tours made to order for your interest, budget, and time. Tours conducted by Charlestonians with charm and wit who enjoy showing you our city.
Things to See and Do

Tours of Historic Charleston - 722-0026

Motorized Tours:

Adventure Sightseeing Inc.
1090 Ft. Sumter Drive, Charleston, 29412
762-0088, 1-800-722-5394
Group Rates Available - yes
The Best of Charleston. One and two-hour tours. A family owned business. See it all. Departs daily, 7 a.m.-10 p.m. Reservations accepted.

Charleston Historical Tours
P.O. Box 30201, Charleston, 29417
853-TOUR, 1-800-CHT-OUR1, FAX: 766-9067
Group Rates Available - yes
1 & 2-hour tours in the Old Town, leaving every 15 to 20 minutes. See plantations and gardens - you may get on and off our tour as many times as you like.

Colonial City & Plantation Tours
P.O. Box 20996, Charleston, 29413
871-2828, 1-800-844-8128, FAX: 871-2828
Group Rates Available - yes
The Platinum Tour of Charleston. One and two-hour tours available. Tours can include house museums to plantations. Call for details.

Colonial Coach & Trolley Co.
P.O. Box 12068, Charleston, 29412
795-3000
Group Rates Available - yes
Beautiful trolleys - Charleston's finest sightseeing and transportation vehicles.

“Doin’ The Charleston” Tours, Inc.
P.O. Box 31338, 29417-1338
763-1233, 1-800-647-4487, FAX: 763-0028
Group Rates Available - yes
History with humor on an unique 90-minute tour of Charleston. Live narration vividly enhanced with music and slide show. 21 passenger mini-bus, air-conditioned comfort. Free downtown pickup.

Walking Tours:

Architectural Walking Tours of Charleston
Rt. 1, Box 1228, Round O, SC 29474
893-2327
An interpretation of the fascinating history of Charleston through its unique architectural heritage. Guided by an art historian and licensed city guide. Includes gardens, interiors.

Charleston Tea Party Walking Tours
57 1/2 Legare St.
577-5896
Group Rates Available - yes
Two-hour tour of Charleston architecture, gardens, churches, and preservation ending with a tea party in the private garden of the home of your guide.
43rd Bioassay Conference - Route for Fun Run/Walk

Fun Run/Walk Route
2.8 Miles

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1. Francis Marion Hotel
2. Zebo Restaurant
3. Sushi Hiro Restaurant
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fax: 404-352-2837
web: www.analyticsinc.com
e-mail: analytics@mindspring.com

Analytics is a leader in the production of custom NIST-traceable radioactivity sources for calibration of alpha, beta, and gamma-ray detectors. Analytics also provides performance evaluation programs for effluent and environmental monitoring programs. Performance evaluations samples provide for assessment of the accuracy and precision of the entire analytical process.

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Established in 1961, Barringer Laboratories, Inc. Provides analytical services (inorganic, organic, and radiochemistry). Current projects include: LANL - waste management; McGuire BOMARC missile range; and the US Radium site.

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toll free: 800-255-7226
web: www.bioscan.com
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Bioscan is a developer of affordable instrumentation for radioisotope counting, luminometry, and chromatography. Major product lines include benchtop LSC counters and luminometers, TLC and gel scanners, and radio-HPLC detectors. Our recently introduced Lumi-Scint provides a battery operated field instrument for LSC measurements.

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Canberra Industries is the world's leading supplier of analytical instruments and applications-oriented systems used for the measurement and quantification of radioactive materials. Canberra products and services respond to the needs of the nuclear research, environmental monitoring, health physics, safeguards, waste management, decontamination and decommissioning, and environmental restoration.
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fax: 704-821-8710
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CEM Corporation will exhibit microwave-based instrumentation for sample preparation prior to subsequent radio-chemical analysis. The START™ Open Vessel System digest large sample sizes (up to 10g) to achieve lower detection limits. The new MARS 5 Closed Vessel Digestion System provides high temperature and pressure reactions allowing complete destruction of organics.

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fax: 509-946-3368
email: chemchek@cbvp.com

CHEMCHEK INSTRUMENTS, INC™ is a small manufacturer of a quality analyzer for Trace metals Uranium and Lanthanides. The rugged Kinetic Phosphorescence Analyzer is fast, reliable, easy, sensitive, selective, economical. Achieve highly specific, precise, 10ppt detection limits using time resolved phosphorescence/fluorescence spectroscopy. ASTM & EPA approved methods.

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fax (630) 963-1928
toll-free: (800) 422-6693
web: www.eichrom.com
e-mail: info@eichrom.com

Eichrom Europe, SARL
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75010 Paris
tel. (01) 53 34 17 24
fax (01) 47 70 36 88

UK numbers:
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fax. (01337) 827 716

Eichrom Industries manufactures and markets specialty chromatographic resins for selective radionuclide separations, analytical grade ion exchange resins and proprietary solvent extractants. With offices in the United States and France, Eichrom provides applications support directly to our customers in North America and Europe and, via a network of distributors, to scientists around the world.
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Mt. Pleasant, SC 29464

tel: 800-343-5319
fax: 803-881-3964
web: www.envexp.com
email: eexpress@awod.com

Environmental Express is a specialty laboratory supplier providing value added supplies and apparatus to environmental, industrial, and governmental laboratories. Products being displayed at the 43rd Bioassay Conference will be our Hot Block™ for glassware free metals digestions, the StepSaver™ for solid extraction, and disposable columns and accessories for actinide separations.

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2040 Savage Road
Charleston, SC 29407
Contact: David McNair, Vice President of Business Development

tel: 803-556-8171
Fax: 803-766-1178
web: www.gel.net
email: dhm@gel.com

Environmental Physics, Inc. (EPI), an affiliate of General Engineering Laboratories, Inc., provides radiochemistry analyses on environmental and bioassay samples to both government and industry. EPI is production oriented and has one of the highest throughput capacities of any private radiochemistry laboratory in the country. Together with General Engineering Laboratories, EPI provides full service mixed waste analysis and currently holds major contracts with the Department of Energy at thirteen of their weapons sites.

Gamma Products, Inc.
7730 W. 114th Place
Palos Hills, IL 60465
Contact: Walter Meier, President

tel: 708-974-4100
fax: 708-974-0071
email: 103106.65@compuserve.com

Gamma Products, Inc. offers a choice of low background manual and automatic G5000 series A/B counting systems in single or multiple detector configurations. The G-3000 automatic marinelli changer is also available and can be adapted to a variety of samples. Gamma Products also offers low background standard and customized shielding.
43rd Annual Conference on Bioassay, Analytical and Environmental Radiochemistry
November 9-13, 1997
Exhibitor Company Descriptions

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tel: 818-843-7000
fax: 818-843-6168
web: www.isotopeproducts.com
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Isotope Products Laboratories is a NIST traceable laboratory supplying radioactive standards, sources and nuclides for counting room use, instrument calibration and environmental monitoring, specializing in custom requirements. A full line of nuclear medicine products is also available. Isotope Products Laboratories celebrates its 30th anniversary this year.

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fax: 702-558-7672
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email: nta@ntanet.net

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Nuclear Technology Services, Inc.
635 Hembree Parkway
Roswell, GA 30076
Contacts: Dr Hermon Rao
          Dr. Evgeny Taskaev
          David Johnson

tel: 770-663-0711
fax: 770-663-0547
email: HermonRao2@AOL.COM

**Radiological Services:** NTS offers analytical services for a broad range of radiological samples. Our radiochemical laboratory is staffed with experienced professionals who analyze environmental, bioassay, effluent and waste samples for a full range of radionuclides. A broad spectrum of samples, including liquid, soil, vegetation, and bioassay can be handled in our laboratory. **Irradiation and Calibration Services:** Our Irradiation and Calibration Facility meet or exceed the industry requirements for the 1990's. Our facility is staffed with highly qualified personnel with extensive experience in the dosimetry and radiation detection instrument fields.
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November 9-13, 1997
Exhibitor Company Descriptions

ORDELA, Inc.
1009 Alvin Weinberg Drive
Oak Ridge, TN 37830
Contact: Wayne P. Graves, Product Manager
Daniel M. Kopp, Technical Director

tel: 423-483-8675
fax: 423-483-8404
email: info@ordela.com

ORDELA, Inc. is a privately owned corporation formed in 1984 to provide specialized products, services, and systems for the scientific and industrial research community. ORDELA, Inc. produces a line of alpha spectrometry instrumentation, including the PERALS® Spectrometer and large-area ionization chambers. ORDELA, Inc. also specializes in position-sensitive detection systems for x-rays and neutrons.

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FAX: 918-251-0008

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Nuclear Measurements Group
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Oak Ridge, TN 37830
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Lester Sideropoulos ext: 218

tel: 423-483-8405
fax: 423-483-5891
toll free: 800-769-3673
email: nmg@oxfordnm.usa.com

Oxford Instruments, Inc., Nuclear Measurements Group is a manufacturer of nuclear counting systems. Product lines include gamma and alpha spectroscopy systems, low level alpha and beta counting systems, NIM, and educational counters.
Packard Instrument Company
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Meriden, CT 06450

tel: 203-238-2351
fax: 203-639-2172
web: http://www.packardinst.com
email: webmaster@packardinst.com

Packard Instrument Company, manufactures Tri-Carb® liquid scintillation counters; Cobra® gamma counters; Radiomatic® flow scintillation analyzers; TopCount® NXT microplate scintillation and luminescence counters; InstantImager® electronic autoradiography systems; Cyclone™ storage phosphor systems; MultiPROBE® robotic liquid handling systems: Discovery® homogeneous time-resolved fluorescence (HTRF®) microplate systems; FluoroCount™, LumiCount™ and SpectraCount™ - non-isotopic microplate counters; samples oxidizers; gas generators; biological reagents; and chemical and supplies.

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Lenoir City, TN 37771
Contact: Phillip Cole

tel: 423-988-6911
fax: 423-988-6905
email: picsales@aol.com

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9209 Oak Ridge Hwy
Oak Ridge, TN 37830-3500
Contact: Joe Eddlemon, Ray McPhillips, or Robert Poling

tel: 800-862-1390
fax: 423-927-6866
web: www.pulcir.com
e-mail: joe@pulcir.com
ray@pulcir.com
robert@pulcir.com

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Contact: Matt Lardy
tel: 509-375-3131
day fax: 509-375-5590
email: lardym@quanterra.com

Cathy Knudsen
719 Pinellas Bayway #103
Tierra Verde, FL 33715
tel: 813-864-3118
day fax: 813-864-3068
email: knudsenC@quanterra.com

Quanterra-Richland has over 32 years experience in bioassay analyses for numerous commercial and
government clients. On October 7, 1997, Quanterra-Richland became the first laboratory to successfully
complete the DOELAP Radiobioassy Accreditation Process which applies to the required technical (including
documentation) and administrative aspects of bioassay monitoring programs at DOE/DOD contractor facilities

QST Environmental Laboratories
PO Box 1703
Gainesville, FL 32602-1703
Contact: Paul C Geiszler, Associate Vice President, Manager Business Development/ Customer Services
tel: 352-332-3318
day fax: 352-332-6622
email: pcgeiszler@qstmail.com
info@qstmail.com

Located in Gainesville, Florida, QST Environmental (formerly ESE) laboratories offer more than 30 years of
experience and extensive full service analytical capabilities. QST is exceptionally qualified in the analysis of
radiochemical, organics, inorganics, air toxics, high explosive/munitions in a variety of matrices including biota.

Thermo Nutech
5635 Jefferson Street NE
Albuquerque, New Mexico 87109
tel: 505-345-9931
day fax: 505-761-5410

Once known as Eberline Instrument corporation, Thermo Nutech is a subsidiary of Thermo Remediation in the
Thermo Electron family of companies. Thermo Nutech is a radiological services company that provides bioassay,
radiochemical waste characterization, radiochemical analyses, health physics support services, dosimetry and
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WAR 1A
PO Box 1010
Muscle Shoals, AL 35662-1010
Contact: William L. Raines, Ph.D.
tel: 205-386-2536
fax: 205-386-2782
e-mail: wlraines@tva.gov

TVA Nuclear Radiological Services provides repair and calibration of radiation survey instrumentation, external dosimetry processing and radioanalytical analyses including environmental, effluent and waste characterization. The combination of staff, facilities, and years of experience supporting the TVA nuclear program make TVA Nuclear Radiological Services an excellent partner for radiological support services.
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<td>Nuclear Technology Services, Inc.</td>
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<td>Nevada Technical Associates, Inc.</td>
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<td>Barringer Laboratories</td>
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<td>Bioscan, Inc.</td>
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<td>Canberra Industries</td>
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<td>CEM Corp.</td>
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<td>Chemchek Instruments</td>
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<td>Eichrom Industries</td>
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<td>Environmental Physics, Inc.</td>
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<td>Gamma Products, Inc.</td>
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<td>Isotope Products Laboratories</td>
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<td>Protean Instrument Corporation</td>
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<td>Thermo NUtech</td>
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<tr>
<td>TVA Radiological Services</td>
<td>14</td>
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</tbody>
</table>
The stairway in the Pinkney Room leads to the Colonial Room in which the plenary sessions will be held. The Colonial Room is also accessible from the main lobby.

Booths 14 and 15 have no access to electrical outlets. All other booths do.
Sunday, November 9  
Workshop Session 1  
Colonial Room

<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Workshop Title/Presenter</th>
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<tbody>
<tr>
<td>Sunday</td>
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<tr>
<td>8:00-5:00</td>
<td>Conference Registration</td>
</tr>
<tr>
<td>8:00-9:00</td>
<td>Continental Breakfast served on the Mezzanine Level</td>
</tr>
<tr>
<td>9:00-12:00</td>
<td>Ordela PERALS Workshop VII</td>
</tr>
<tr>
<td></td>
<td>Wayne Graves</td>
</tr>
<tr>
<td>12:00-1:30</td>
<td>Lunch On Your Own</td>
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<tr>
<td>1:30-3:30</td>
<td>“State-of-the-art in Bioassay Measurements”</td>
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<td>Myint Thein</td>
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<tr>
<td>3:30-3:45</td>
<td>Coffee Break</td>
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<tr>
<td></td>
<td>Mezzanine Level</td>
</tr>
<tr>
<td>3:45-5:30</td>
<td>“Linear Statistical Modeling”</td>
</tr>
<tr>
<td></td>
<td>Ken Scrabel</td>
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<tr>
<td>6:00-9:30</td>
<td>Reception at Environmental Physics, Inc.</td>
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<td>(Buses depart beginning at 5:30 from the Francis Marion)</td>
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</tbody>
</table>

Workshop Session 2  
Calhoun Room

<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Workshop Title/Presenter</th>
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<tbody>
<tr>
<td>Sunday</td>
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<tr>
<td>1:30-3:30</td>
<td>Packard</td>
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<tr>
<td></td>
<td>“New Applications for Environmental LSC”</td>
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<tr>
<td>3:30-3:45</td>
<td>Coffee Break</td>
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<td></td>
<td>Mezzanine Level</td>
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<tr>
<td>3:45-5:30</td>
<td>EG&amp;E ORTEC</td>
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<td></td>
<td>“Laboratory Networks – Is Now the Time?”</td>
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<tr>
<td>6:00-9:30</td>
<td>Reception at Environmental Physics, Inc.</td>
</tr>
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<td></td>
<td>(Buses depart beginning at 5:30 from the Francis Marion)</td>
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</tbody>
</table>
### Workshop Session 3
**Colonial Room**

<table>
<thead>
<tr>
<th>Day/Time</th>
<th>Workshop Title/Presenter</th>
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<tbody>
<tr>
<td><strong>Monday</strong></td>
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<tr>
<td>7:30-5:00</td>
<td>Conference Registration</td>
</tr>
<tr>
<td>7:00-8:00</td>
<td>Continental Breakfast served on the Mezzanine Level</td>
</tr>
<tr>
<td>8:00-10:00</td>
<td>“DOE QA Program”</td>
</tr>
<tr>
<td></td>
<td>Pam Greenlaw</td>
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<tr>
<td>10:00-10:15</td>
<td>Coffee Break</td>
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<tr>
<td></td>
<td>Mezzanine Level</td>
</tr>
<tr>
<td>10:15-12:00</td>
<td>Eichrom Workshop “Radiochemical Separations using Extraction Chromatography”</td>
</tr>
<tr>
<td>12:00-1:15</td>
<td>Lunch On Your Own</td>
</tr>
<tr>
<td>1:15-3:00</td>
<td>Canberra Industries</td>
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<tr>
<td></td>
<td>“Alpha Spectrometry”</td>
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<tr>
<td>3:00-3:15</td>
<td>Coffee Break</td>
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<tr>
<td></td>
<td>Mezzanine Level</td>
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<tr>
<td>3:15-5:00</td>
<td>“NIST Rad Intercomparison Program”</td>
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<tr>
<td></td>
<td>Chaun F. Wu</td>
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<tr>
<td>5:30-7:30</td>
<td>Vendor Reception sponsored by Eichrom Industries</td>
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<td>Vendor Display Area</td>
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### Workshop Session 4
**Calhoun Room** (Morning), **Gold Room** (Afternoon)

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<thead>
<tr>
<th>Day/Time</th>
<th>Workshop Title/Presenter</th>
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<tbody>
<tr>
<td><strong>Monday</strong></td>
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<tr>
<td>7:30-5:00</td>
<td>Conference Registration</td>
</tr>
<tr>
<td>7:00-8:00</td>
<td>Continental Breakfast served on the Mezzanine Level</td>
</tr>
<tr>
<td>8:00-10:00</td>
<td>Oxford</td>
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<td>“New Technology in LL α/β Counting”</td>
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<tr>
<td>10:00-10:15</td>
<td>Coffee Break</td>
</tr>
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<td></td>
<td>Mezzanine Level</td>
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<tr>
<td>10:15-12:00</td>
<td>“MDA and Detection Limits”</td>
</tr>
<tr>
<td></td>
<td>M. Hotchandani/Rao</td>
</tr>
<tr>
<td>12:00-1:15</td>
<td>Lunch On Your Own</td>
</tr>
<tr>
<td>1:15-3:00</td>
<td>“DOE Mixed Waste Performance Evaluation Program (MAPEP)”</td>
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<tr>
<td></td>
<td>Stan Morton</td>
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<tr>
<td>3:00-3:15</td>
<td>Coffee Break</td>
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<td></td>
<td>Mezzanine Level</td>
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<tr>
<td>3:15-5:00</td>
<td>3M Empore™ Rad Disks</td>
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<tr>
<td>5:30-7:30</td>
<td>Vendor Reception sponsored by Eichrom Industries</td>
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<td>Vendor Display Area</td>
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<td>Day/Time</td>
<td>Author/Co-Authors Affiliation</td>
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</table>
| **Tuesday** | **Continental Breakfast**  
*Colonial Room* | |
| 7:00-8:00 | | |
| 7:30-5:00 | **Conference Registration**  
*Mezzanine Level* | |
| 8:00-8:10 | Heyward H. Coleman  
Environmental Physics, Inc. | Welcome to the 43rd Conference on Bioassay, Analytical, and Environmental Radiochemistry |
| 8:10-8:20 | Joseph P. Riley  
Mayor of Charleston | Welcome to Charleston, SC |
| 8:20-9:00 | **Keynote Address:**  
Prof. Ron Kathren  
Washington State University | Human Tissue Studies: The Ultimate Bioassay? |
| 9:00-9:20 | Judith Foulke and Daniel J. Strom  
DOE and Pacific Northwest National Laboratory | DOE's Proposed Standard for Internal Dosimetry |
| 9:20-9:40 | Son N. Nguyen  
Lawrence Livermore National Laboratory | The T.R.I.P. (Thyroid Radioiodine Intercomparison Program) Odyssey |
| 9:40-10:00 | R.E. Filipy, D.B. Suijt, S.E. Glover,  
U.S. Transuranium and Uranium Registry  
Dosimetry Registry of the Mayak Industrial Association  
(DRMI) and the U.S. Transuranium and Uranium Registries (USTUR) | Radiochemical Comparison between the Dosimetry Registry of the Mayak Industrial Association (DRMIA) and the U.S. Transuranium and Uranium Registries (USTUR) |
| 10:00-10:20 | **Coffee Break**  
*Vendor Display Area* | |

Tuesday, November 11  
Final Program: Session 2  
Environmental Assessment  
Chair: Larry Robinson, Florida A&M University  
Colonial Room

<table>
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<tr>
<th>Day/Time</th>
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<tr>
<td><strong>Tuesday</strong></td>
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<tr>
<td>10:20-10:40</td>
<td>Evgeny Kontar and Bill Burnett</td>
<td>Fate of Chernobyl Radionuclides in Black Sea Sediments</td>
</tr>
<tr>
<td></td>
<td>P.P. Shirshov Institute of Oceanology (Moscow) and Florida State University</td>
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<tr>
<td>10:40-11:00</td>
<td>Carl T. Bishop, J.R. Wise, J.M. Byrne, and P.A. Tetsuwaru Fluor Daniel Fernald</td>
<td>Uranium in Airborne Particulates at Fernald Using &quot;Dynaweb&quot; Filters</td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>Jon P. Martin, K.J. Odell Magnox Electric Plc (UK)</td>
<td>Emergency Radiochemical Analysis Methodology and Performance</td>
</tr>
</tbody>
</table>
| 12:00-1:30   | Conference Luncheon Gold Room  
Invited Speaker: William Reinig | History of the Savannah River Site                                    |
**Tuesday, November 11**  
**Final Program: Session 3**  
**Naturally-Occurring Radionuclides**  
**Chair: Frank Kinard, College of Charleston**  
**Colonial Room**

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<th>Day/Time</th>
<th>Author/Co-Authors Affiliation</th>
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<tbody>
<tr>
<td>1:30-1:50</td>
<td>J. Oliveira, Barbara Mazzilli, M.H.O. Sampa, and E. Bambalas Instituto de Pesquisas Energeticas e Nucleares (Brazil)</td>
<td>Determination of Natural Radioactivity in Public Water Supplies of the State of Sao Paulo</td>
</tr>
<tr>
<td>1:50-2:10</td>
<td>Donna M. Beals, Bill Winn, and Miles Denham Savannah River Technology Center</td>
<td>Analysis of the Ra-226/228 Isotope Ratio to Determine the Source of Elevated Radium in the Groundwaters Below an Old Coal Pile</td>
</tr>
<tr>
<td>2:10-2:30</td>
<td>Michael G. Cantaloub, J.F. Higinbotham, and L. Semprini Oregon State University</td>
<td>The Determination of Rn Partition Coefficients for Several Liquid Scintillation Cocktails</td>
</tr>
<tr>
<td>2:30-2:50</td>
<td>Katherine M. Ellis, Richard P.W. Nelson, John N. Smith, and Brad Moran Bedford Institute of Oceanography and University of Rhode Island</td>
<td>Evaluation of the “Challenger” Pump for Radionuclide Oceanographic Sample Collection</td>
</tr>
<tr>
<td>2:50-3:10</td>
<td>T.L. Rucker and C.M. Johnson Science Applications International Corporation</td>
<td>Calculation of Uranium Isotopic Activity Composition Based on Data from Various Assay Methods</td>
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<tr>
<td>3:10-3:30</td>
<td>Coffee Break Vendor Display Area</td>
<td>Coffee Break Sponsored by Analytics</td>
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<td>Tuesday</td>
<td>Gary H. Kramer</td>
<td>Considerations in Assigning Dose Based on Uncertainties from In Vivo Counting</td>
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<td>3:30-3:50</td>
<td>Canada Radiation Protection Bureau</td>
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<tr>
<td>3:50-4:10</td>
<td>Gary H. Kramer, Barry Hauck, and</td>
<td>Comparison of the LLNL and JAERI Torso Phantoms Using Four 70 mm Ge Detectors and Four Phoswich Detectors</td>
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<tr>
<td></td>
<td>Steve Allen</td>
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<td>Canada Radiation Protection</td>
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<td>Bureau and Cameco Corp.</td>
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<td></td>
<td>Suzanne Yiu</td>
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<td>Canada Radiation Protection</td>
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<td></td>
<td>Bureau</td>
<td></td>
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<tr>
<td>4:30-4:50</td>
<td>N. A. Teasley and L.D. Bible</td>
<td>Twelve Years of Radiation Monitoring of Deer on the Oak Ridge Reservation (1985-Present)</td>
</tr>
<tr>
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<td>Oak Ridge National Laboratory</td>
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<tr>
<td>4:50-5:10</td>
<td>P. A. Scofield and F.R. O'Donnell</td>
<td>Individual and Collective Effective Dose Equivalents Associated with Consumption of Venison Obtained from Deer Hunts on the Oak Ridge Reservation</td>
</tr>
<tr>
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<td>Oak Ridge National Laboratory</td>
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<tr>
<td>5:30-7:30</td>
<td>Complimentary Entertainment Suite</td>
<td>Please stop by the Nuclear Technology Services, Inc./Nevada Technical Association, Inc. booth for the Suite number</td>
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<td>hosted by Nuclear Technology</td>
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<td></td>
<td>Services, Inc./Nevada Technical</td>
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<td>Association, Inc.</td>
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<tr>
<td>7:00-8:00</td>
<td>Continental Breakfast &lt;br&gt;Colonial Room</td>
<td></td>
</tr>
<tr>
<td>7:30-3:30</td>
<td>Conference Registration &lt;br&gt;Mezzanine Level</td>
<td></td>
</tr>
<tr>
<td>8:00-8:20</td>
<td>D. R. Corbett, Bill Burnett, and W.J. McCabe &lt;br&gt;Florida State University and &lt;br&gt;Geological and Nuclear Sciences, Ltd. (New Zealand)</td>
<td>Simple Technique for the Measurement of I-131 in Water Samples via NaI Detector</td>
</tr>
<tr>
<td>8:20-8:40</td>
<td>Donna M. Beals, Brian S. Crandall, Wanda G. Britt, Peter D. Fledderman, Joseph P. Dugan, and Brad K. Davis &lt;br&gt;Westinghouse Savannah River Co. and Bechtel Savannah River Co.</td>
<td>Surface and Groundwater Analyses Using Solid Phase Extraction Disks</td>
</tr>
<tr>
<td>8:40-9:00</td>
<td>Roger Wong, Bill Burnett, Brian Crandall, and Sue B. Clark &lt;br&gt;Florida State University, WSRC, and Washington State University</td>
<td>Development of an Improved Assay for the Determination of Gross Alpha and Beta Concentrations in Soil by Liquid Scintillation Counting</td>
</tr>
<tr>
<td>9:00-9:20</td>
<td>S. Scarpitta, J. Odin-McCabe, R. Gaschott, and A. Meir &lt;br&gt;Brookhaven National Laboratory</td>
<td>Comparative Results of Four Sr-90 Groundwater Analytical Methods</td>
</tr>
<tr>
<td>9:20-9:40</td>
<td>Hewitt W. Jeter &lt;br&gt;Teledyne Environmental Services</td>
<td>Gross Alpha/Beta Proportional Counting for Samples Having High Residue Mass</td>
</tr>
<tr>
<td>9:40-10:00</td>
<td>Coffee Break &lt;br&gt;Vendor Display Area</td>
<td></td>
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</table>
Wednesday, November 12  
Final Program: Session 6  
Extraction Chromatography/Separation Methods  
Chair: Michael Schultz, NIST and Florida State University  
Colonial Room

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<tr>
<th>Day/Time</th>
<th>Author/Co-Authors Affiliation</th>
<th>Title</th>
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<tbody>
<tr>
<td>10:00-10:20</td>
<td>M. Rodriguez, J.L. Gascon, and J.A. Suarez CIEMAT (Spain)</td>
<td>Study of the Interferences in the Determination of Pu, Am, and Cm in Radioactive Waste by Extraction Chromatography</td>
</tr>
<tr>
<td>10:20-10:40</td>
<td>Peter H. Cable and Bill Burnett QST Environmental Inc. and Florida State University</td>
<td>Analysis of Promethium-147 In Aqueous Samples</td>
</tr>
<tr>
<td>10:40-11:00</td>
<td>Ray A. Sigg, S.F. Peterson, and D.P. DiPrete Westinghouse Savannah River Company</td>
<td>Promethium Separations using Eichrom Ln Resin</td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>R.A. Dewberry Savannah River Technology Company</td>
<td>Measurement of Ni-63 Content in Savannah River Site DWPF Glass Product by Ni-Selective Ion Exchange Purification and β-Counting</td>
</tr>
<tr>
<td>11:20-11:40</td>
<td>Robert Langston, Debra Madden, and Tracey Simpson Lawrence Livermore National Laboratory</td>
<td>The Determination of Curium in Fecal and Chelated Urine Samples</td>
</tr>
<tr>
<td>11:40-1:30</td>
<td>Lunch On Your Own</td>
<td></td>
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</tbody>
</table>
Wednesday, November 12  
Final Program: Session 7  
Quality Assurance/Data Management/Statistics-1  
Chair: Mo Khalil, Westinghouse Savannah River Co.  
Colonial Room

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<tr>
<th>Day/Time</th>
<th>Author/Co-Authors Affiliation</th>
<th>Title</th>
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<tbody>
<tr>
<td>1:30-1:50</td>
<td>Conference Business Meeting Founder’s Award Presentation</td>
<td></td>
</tr>
<tr>
<td>2:30-2:50</td>
<td>Michael K. Schultz, Kenneth G.W. Inn, and J.M.R. Hutchinson National Institute of Standards and Technology</td>
<td>The NIST Radiochemistry Intercomparison Program NRIP: Traceability for Low-Level Radioanalytical Laboratories-Results of Year 1</td>
</tr>
<tr>
<td>2:50-3:10</td>
<td>Mansour Akbarzadeh, Chuan-Fu Wu, Steven Bakhtiar WIPP Laboratory</td>
<td>Radiochemical Methods and Intercomparison Programs Participation by WIPP Laboratories</td>
</tr>
<tr>
<td>3:10-3:30</td>
<td>Coffee Break Vendor Display Area</td>
<td></td>
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## Final Program: Session 8

**Quality Assurance/Data Management/Statistics-2**

Chair: Donivan Porterfield, Los Alamos National Laboratory

**Colonial Room**

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<th>Author/Co-Authors</th>
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<tbody>
<tr>
<td><strong>Wednesday</strong></td>
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</tr>
<tr>
<td>3:30-3:50</td>
<td>Howard L. Hall and Christine Choate</td>
<td>Lawrence Livermore National Laboratory</td>
<td>WWW-Based Information Distribution in the Analytical Laboratory</td>
</tr>
<tr>
<td>3:50-4:10</td>
<td>P. Berard, F. Briot, D. Cavadore, L. Exmelin, R. Fottorino, F. Nguyen</td>
<td>PROCORAD (France)</td>
<td>International Quality Controls in the Field of Radiotoxicological Bioassay</td>
</tr>
<tr>
<td>4:10-4:30</td>
<td>Jon A. Broadway, Donald A. Chambless, and Richard E. Malenfant</td>
<td>International Corps on the Environment (ICE)</td>
<td>Assessment of Performance Testing Results in 1997 and Response to Laboratory Questionnaire</td>
</tr>
<tr>
<td>4:30-4:50</td>
<td>Thomas M. Semkow</td>
<td>New York State Dept. Health</td>
<td>Is the Average of Detected Counts a Good Measure of the Dispersion of Radioactivity Measurements?</td>
</tr>
<tr>
<td>6:00-11:00</td>
<td><em>Beach Party</em></td>
<td></td>
<td><em>Citadel Beach House</em></td>
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<td></td>
<td><em>Sullivan's Island</em></td>
<td></td>
<td><em>Buses Depart Beginning at 5:30pm</em></td>
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Thursday, November 13
Final Program: Session 9 (Concurrent with Session 10)
Bioassay/Environmental Analytical Techniques
Chair: Robin Young, Westinghouse Savannah River Co.
Calhoun Room

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<tr>
<th>Day/Time</th>
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<tr>
<td>Thursday</td>
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<tr>
<td>7:00-8:00</td>
<td><em>Continental Breakfast Mezzanine Level</em></td>
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<tr>
<td>8:00-8:20</td>
<td>J.G. Griggs and MARLAP Workgroup Members EPA, DOE, NRC, DOD, NIST, others</td>
<td>Multiagency Radiation Laboratory Protocols (MARLAP) Manual</td>
</tr>
<tr>
<td>8:20-8:40</td>
<td>Tansy L. Taylor, Gary E. Grothaus, Rick Cummings U.S. DOE/ID</td>
<td>The Department of Energy Laboratory Accreditation Program for Radiobioassay</td>
</tr>
<tr>
<td>8:40-9:00</td>
<td>Donivan R. Porterfield Los Alamos National Laboratory</td>
<td>Assessment of Low-Level Plutonium in Urine QC Sample Results by Thermal Ionization Mass Spectrometry (TIMS)</td>
</tr>
<tr>
<td>9:00-9:20</td>
<td>Seth D. Shulman Bioscan, Inc.</td>
<td>A Compact Liquid Scintillation Counter for Benchtop and Field Use</td>
</tr>
<tr>
<td>9:40-10:00</td>
<td><em>Coffee Break Mezzanine Level</em></td>
<td></td>
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Thursday, November 13  
Final Program: Session 10 (Concurrent with Session 9)  
Environmental Studies-1  
Chair: Barry Stewart, Environmental Physics, Inc.  
Pinkney Room

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</table>
| 7:00-8:00  | *Continental Breakfast  
*Mezzanine Level                                                                                       |                                                                                                                                      |
| 8:00-8:20  | Barbara M. Gillespie, Gregory W. Patton, and Robert A. Kiddy  
Pacific Northwest National Laboratory                                                              | Iodine-129 in Onsite and Offsite Samples at Hanford                                                                                 |
| 8:20-8:40  | John R. Meriwether, Carey Hardaway, Wei-jenq Sheu, Joseph Sneddon, and James N. Beck  
University of Southwestern Louisiana, McNeese State University, and Nicholls State University    | The Effect of Diagenetic Processes on the Radiochronology of Soft Sediments Using $^{210}$Pb and $^{137}$Cs                          |
| 8:40-9:00  | W.H. Carlton, G.T. Jannik, and A.A. Simpkins  
Westinghouse Savannah River Company                                                               | Radiological Impact of 1996 Operations at the Savannah River Site                                                                         |
| 9:00-9:20  | I.L. Larsen, F. Essien, L. Robinson, and J. Weaver  
ORNL and Florida A&M Univ.                                                                            | Radionuclide Distribution in Soils Periodically Treated with Municipal Sewage Sludge                                                        |
Clemson University                                                                                  | Measurement of Radionuclides in Reactor Coolant Water by Ion Chromatography and On-Line/Off-Line Scintillation Counting             |
| 9:40-10:00 | *Coffee Break  
*Mezzanine Level                                                                                   |                                                                                                                                      |
Thursday, November 13  
Final Program: Session 11 (Concurrent with Session 12)  
New/Improved Radioanalytical Techniques  
Chair: Donna Beals, Westinghouse Savannah River Co.  
Calhoun Room

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<tr>
<td>10:20-10:40</td>
<td>P.N. Koch, L. W. Hatcher, and J.D. Batchelor Bechtel Nevada</td>
<td>Active Shielding Techniques Applied to Gamma Spectroscopy and Their Costs vs. Benefits</td>
</tr>
<tr>
<td>10:40-11:00</td>
<td>Steven A. Kreek, D. Beckedahl, J. Kammeraad, A. Frieseheiner, J. Blair, B. Payne, and A. Goldberger LLNL and Lockheed Martin</td>
<td>Real-Time Digital Signal Processing for HPGe Detectors</td>
</tr>
<tr>
<td>11:00-11:20</td>
<td>Neil M. Barss, R. Thomas Bell III, David E. McCurdy, Leenu E. Kuruvilla, and Kenneth G.W. Inn DOE, OIHP (EH-63), YALE, NIST</td>
<td>$^{239}$Pu Intercomparison of ICP-MS, TIMS and FTA at µBq levels</td>
</tr>
<tr>
<td>11:40-12:00</td>
<td>Zenon Pawlak and Gabriela Kuswik-Rabiega Utah Department of Health</td>
<td>A Comparison of the Inductively Coupled Plasma Mass Spectroscopy /ICP/MS/ and Radiochemical Techniques of Total Uranium in Ground Water and Environmental Water Samples</td>
</tr>
<tr>
<td>12:00</td>
<td>End of Conference</td>
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Thursday, November 13
Final Program: Session 12 (Concurrent with Session 11)
Environmental Studies-2
Chair: Gary Kramer, Canada Radiation Protection Bureau
Pinkney Room

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<tbody>
<tr>
<td>Thursday</td>
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<tr>
<td>10:00-10:20</td>
<td>Walter Kubilius, Brian Crandall, Terrence Killeen, and James Westmoreland Westinghouse Savannah River Company and Environmental Physics, Inc.</td>
<td>Causes of Radiological False Positives in Environmental Soil and Groundwater Data From Commercial Laboratories</td>
</tr>
<tr>
<td>10:40-11:00</td>
<td>R. Garcia, R. Rosson, and B. Kahn, Georgia Institute of Technology</td>
<td>Microwave-Assisted Decomposition of Environmental Samples Coupled to Classical Methods of Separation and Purification for the Analysis of $^{90}$Sr and $^{238,239}$Pu</td>
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<tr>
<td>11:40</td>
<td>End of Conference</td>
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