NRRPT[®] NEWS

National Registry of Radiation Protection Technologists

February 2008 Edition

Incorporated April 12, 1976

INSIDE THIS ISSUE	
Chairman's Message	1
Registry Spotlight	3
A General Review of Detection and	
Measurement of Radioactivity	4
Sponsors	7
Some of Our Available Merchandise	14
Merchanise Order Form	15

CONTACTS

Dave Biela, Chairman of the Board (716) 942-4423 (w) (716) 942-2097 (fax) dave.biela@wves.org

DeeDee McNeill, Executive Secretary (509) 582-3500 (w) (509) 582-3501 (fax) nrrpt@nrrpt.org

Bob Farnam, Newsletter Editor (573) 676-8784 (w) (573) 676-4484 (fax) refarnam@cal.ameren.com

Chairman's Message



Dave Biela (Chairman of the Board) & Kelli Gallion (Past Chairman of the Board)

Winter is part way over and I hope everyone is doing good and staying warm. You may have noticed for the first time, there are two people on the cover of the newsletter; myself as the new Chairman and Kelli as the past Chairman. I asked for both pictures because I didn't think the registry was ready to go directly from Kelli's picture on the cover to mine. I didn't want to scare readers away!

I would like to take the opportunity to thank Kelli for all her fine work. During her time leading the **NRRPT**, the registry has strengthened our relationships with other organizations within the nuclear community here in the United States and Canada. We have administered our first Canadian specific **NRRPT** exam and have welcomed our first Canadian Panel member.

During my time as Chairman I have two main initiatives. The first is to use the registry to make guidance counselors and students throughout the United States and Canada aware of the potential future shortages of workers in the nuclear industry. We will be gathering data that will be used in newsletter articles and put in hand-outs that could

be used at jobs fairs, etc. The other initiative is for individuals that are already part of the registry to encourage technicians to sit for the **NRRPT** exam and to help them study for it. When I was preparing for the exam back in 1986, several of the already registered technicians I worked with took the time to put together study groups to help prepare us for the exam. The individuals in the study group typically did well and the help from the other technicians was greatly appreciated.

Our winter meeting this year was held in conjunction with the 2008 North American ALARA Symposium/EPRI Radiation Protection Conference. At the Symposium we provided three PEP courses that were good towards Continuing Education Credit. We also voted in two new Board members, Lindsay Nelsen and Dave Wirkus, will begin their term January 1, 2009. I would highly recommend future ALARA Symposium meetings for both the range of topics and the hospitality. Remember that **NRRPT** Board and Panel meetings are open to the registry. The next Board and Panel meeting is in Pittsburg, PA in conjunction with the HPS annual meeting from July 12th to the 17th. More information will be in the next **NRRPT** News.

Respectfully, Dave Biela NRRPT, Chairman of the Board



Dave Biela Presents Outgoing Chairman Kelli Gallion with a Gavel Plaque

2008 USA NRRPT Exam Date

August 2, 2008

Deadline for application: June 15, 2008

** Exam applications may be downloaded from our web page **

www.NRRPT.org

Registry Spotlight ** New Officers **



Eddie Benfield (Vice-Chairman), Dave Biela (Chairman) & Barry Kimray (Secretary/Treasurer), left to right

With the upcoming Presidential elections, 2008 will be a year of change. The New Year has also marked "a changing of the guard" within our Registry. And while New Years is a time of reflection: a time to recall the successes of our predecessors, it is also a time of great anticipation. It is a time to imagine how our organization will change under the purview of new leaders. Our new leaders are not new faces though, but rather are faces we have known for years. We thought that placing an article in this newsletter would be a great way for you to get to know them better. This Registry Spotlight is on Dave Biela, Eddie Benfield and Barry Kimray.

Dave Biela took over as Chairman of the Board of Directors (BOD) on January 1st after Kelli Gallion had finished a very successful 4 years in this role. Until this year, Dave was the Vice-Chairman of the BOD and was previously a long-standing Chairman of the Panel of Examiners. He became registered in 1986. When not working on Registry matters, Dave is the Radiation Safety Manager at West Valley Environmental Services in New York. He enjoys hunting, playing hockey as a "goal tender" and officiates high school basketball. On a more personal level, David has been married for 32 years and has four sons and one daughter. When asked about the more notable accomplishments that he was involved in during his tenure with the Registry, he stated that, "expanding the exam to Canada" and "establishment of an internal examination processing system" was most significant.

Eddie Benfield is the successor to Dave Biela's former position as Vice-Chairman of the BOD. Prior to this year, he had spent two years on the BOD and had been on the Panel of Examiners since 2000. He became registered in 1996. Eddie's day job is working for Duke Energy at the Catawba Nuclear Station as a Radiation Protection Supervisor. He enjoys traveling, playing guitar in the rhythm section at his church and spending time with his family. Eddie has been married for 25 years and has one son that is 20 years old. When asked about the most notable accomplishment that he was involved in, he responded without hesitation: "implementation of the Bama McKnight Award!" Not only does this award reflect on Bama for his achievements and support of the Registry, but the cause is a most worthy one. It recognizes people like Bama that are outstanding trainers.

The third person in the spotlight is Barry Kimray. This year Barry was handed the baton from Kelly Neal, becoming the new Secretary/Treasurer. Prior to this appointment, he had been on the BOD since January 2007 and served on the Panel of Examiners prior to that. Barry first became registered in 1997. When not serving the

A General Review of Detection and Measurement of Radioactivity By Augustinus Ong, Dartmouth College

The purpose of this review, in the format of questions and answers, is to remind readers of some of the basic aspects of calculations dealing with detection and measurement of radioactivity.

Scenario: You have been assigned to determine the activities of known radionuclides found on a charcoal filter used in the stack monitor at a nuclear reactor. Your fellow colleague provides you with the following data to get started:

Detector Calibration Data

Gamma Energy (keV)	Calibration Source (gamma/sec) decayed-corrected	Ge(Li) Detector (net counts/1000 seconds)
60	2,000	84,000
88	1,800	96,000
121	1,600	79,000
344	1,500	31,000
768	700	9,000
963	800	7,500
1,408	1,200	8,300

Charcoal Filter Sample Measurement

Peak Energy (keV)	Ge(Li) Detector (net counts/1000 seconds)	
122	7,310	
136	11,000	
265	8,540	
280	5,300	
401	630	

Possible Radionuclides in Charcoal Filter

Radionuclide	Half-Life (Days)	Gamma Energy (keV)	Yield = Number of Gammas Emitted per Disintegration (%)
Co-57	271.8	122.1	85.9
		136.5	10.3
Se-75	119.8	121.1	17.3
		136.0	59.0
		264.7	59.2
		279.5	25.2
		400.7	11.6
Hg-203	46.7	279.2	81.5

- Q1. Calculate the counting efficiency at each gamma-photon energy for the charcoal filter used in the stack monitor at that nuclear reactor.
- A1. The equation for counting efficiency E per gamma is

E = (C / T) / S, where

- C = net count
- T = counting interval

S = source strength

Efficiency per Gamma

Gamma Energy (keV)	Efficiency per Gamma	
60	0.042	
88	0.053	
121	0.049	
344	0.021	
768	0.013	
963	0.009	
1408	0.007	

- Q2. What are the possible radionuclides detected on the charcoal filter and their respective activities?
- A2. First identify the radionuclide whose detected energy peak has no interference from other radionuclide's emission peaks. Only Se-75 fits this selection criterion; therefore, estimate the activity of Se-75 using energy peak at 401.1 keV. Then estimate the efficiency at 401.1 keV by either plotting the efficiency per gamma on a log-log plot or interpolate between the two values of 0.021 and 0.013 from above table. The result should be 0.02

Activity = (Net Count / Time) (1 / Efficiency) (1 / Yield)

Activity (Se-75) =

(630 counts / 16.67 min) (1 / 0.02 counts per gamma) (1 / 0.116 gamma per decay)

Activity (Se-75) = 28700 dpm

Use this result and the estimated efficiencies of the remaining Se-75's gamma peaks, to determine counts in other peaks due to Se-75's contribution.

Expected Counts = Activity x Efficiency x Yield x Time

Peak Energy (keV)	Efficiency	Expected Counts	Actual Count
121.5	0.05	4138	7300
136.2	0.04	11291	11000
265.0	0.03	8497	8540
279.2	0.03	3617	5300

Based on the results, we can conclude that 265.0 keV peak is emitted by Se-75 only. The actual counts at 121.5 keV peak indicates that in addition to the Se-75's counts, there may be a contribution from Co-57.

Activity (Co-57) =

(7300 – 4138 counts / 16.67 min) (1 / 0.05 counts per gamma) (1 / 0.859 gamma per decay)

Activity (Co-57) = 4416 dpm

The actual counts at 279.2 keV peak indicates that in addition to the Se-75's counts, there may be a contribution from Hg-203 too.

Activity (Hg-203) =

(5300 – 3617 counts / 16.67 min) (1 / 0.03 counts per gamma) (1 / 0.815 gamma per decay)

Activity (hg-203) = 4129 dpm

We will continue with more questions and answers next time.

Continued from page 3

Registry, he is a Radiation Protection Scientist at Duke Energy's Catawba Nuclear Station. Barry enjoys gardening, traveling and spending time with family and friends. He and his wife will be celebrating 25 years of marriage in May. He has two sons. Barry indicated that the "RP 2020 Initiative" to establish presentations for high schools and community organizations was one of the most notable achievements that he has been involved in. He felt that it was of paramount importance to educate and promote our field to the surrounding community.

The three individuals that are the subject of this spotlight are achievers and represent the excellence that the Registry is known for. Each are proven and will provide leadership into a new decade. It was a pleasure to take this opportunity in welcoming these esteemed members into their new positions. Through the insight and perseverance of these and other members of our Registry, the future looks very bright.

2008 Sustaining Dues

It's not too late to submit your 2008 sustaining dues and be included in the 2008 Handbook! If you haven't paid yet, please submit to the Executive Secretary's office as soon as possible!



ENERGIZE YOUR CAREER AND JOIN THE BARTLETT TEAM!

As the largest provider of radiation safety technicians to the commercial nuclear power industry and Department of Energy facilities, Bartlett offers over 4,000 Junior & Senior Radiation Safety opportunities annually.

- ✓ Be a part of the "nuclear renaissance!" Now is the time to experience nuclear industry growth and exciting new opportunities with Bartlett
- Flexible assignments ideal for varied backgrounds including industry retirees or those with Department of Energy experience
- ✓ Competitive compensation & benefits, paid travel & living expenses
- ✓ Training programs & career development for entry level positions
- ✓ Flexible project locations in 35 states nationwide
- ✓ Short term & temporary assignments available

To inquire about opportunities please contact:

(800) 225-0385, then press # and 2 when prompted for our recruiting team Send resumes to*: nuclear@bartlettinc.com " Fax (508) 746-8588 (*Please reference NRRPT when sending in your resume)

60 Industrial Park Road, Plymouth, MA 02360 | www.bartlettinc.com



Pacific Gas and Electric Co. Diablo Canyon

Robert E. Hite Box 56 Avila Beach, CA 93424 (805) 545-4591 (805) 545-3459 (fax) REHY@PGE.com www.pge.com

Diablo Canyon is located on California's central coast on some of the most picturesque and pristine coastline in the world. Diablo Canyon generates enough electricity to meet the needs of over 2 million homes.

Southern California Edison

Bob Corbett, RPM P.O. Box 128 San Clemente, CA 92672 (949) 368-9645 corbetrt@songs.sce.com

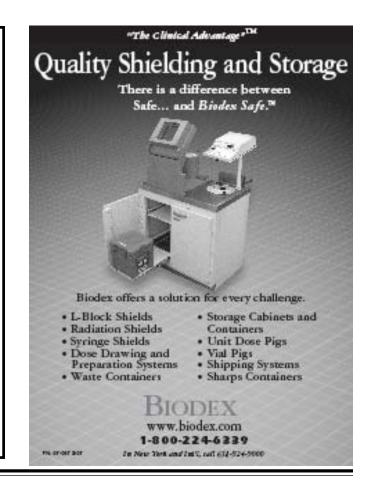
San Onofre Nuclear Generating Station is proud to have over 60 registered NRRPT members in our Health Physics, Training, Chemistry, Engineering, Operations, Oversight, and Maintenance organizations. We are especially proud that Kelli Gallion of our HP Planning group was a member of the Panel of Examiners, Board of Directors, and is currently the NRRPT Chairman.

San Onofre is a three unit site with two operating 1170 MWe Combustion Engineering reactors and one early Westinghouse unit in decommissioning. The station is located in Southern California on the Pacific Ocean and midway between San Diego and Los Angeles.

AmerenUE-Callaway Plant

Bob Farnam P.O. Box 620 Fulton, MO 65251 (573) 676-8784 (573) 676-4484 (fax) refarnam@cal.ameren.com www.ameren.com

Among the nation's top utility companies in size and sales, Ameren is the parent of AmerenUE, based in St. Louis, MO, and AmerenCIPS, based in Springfield, IL. Ameren is also parent to several nonregulated trading, marketing, investment and energy-related subsidiaries. Ameren employees, totaling approximately 7,400, provide energy services to 1.5 million electric and 300,000 natural gas customers over 44,500 square miles in Illinois and Missouri.



Canberra Industries

Tammy Pattison 800 Research Pkwy Meriden, CT 06450 (800) 243-3955 (203) 235-1347 (fax) tpattison@canberra.com www.canberra.com

Radiation measurement, detection and monitoring equipment. Alpha and gamma spectroscopy systems, portal monitors, personal contamination monitors, trucks, vehicle monitors, survey meters, personal dosimeters, specialty research HPGE detectors.

Dade Moeller Technical Services

Arthur Desrosiers 52 Deer Jump Hill W. Barnstable, MA 02668 (508) 443-0225 (508) 362-1417 (fax) adesrosiers@moellerinc.com

www.moellerinc.com

Dade Moeller & Associates is an award-winning, employee-owned small business specializing in occupational and environmental health sciences. Dr. Dade Moeller founded our Company in 1994 to provide health physics, industrial hygiene, and safety support to government and commercial nuclear facilities. Our reputation for understanding worker safety concerns in radiological environments is unsurpassed, and government, business, and labor leaders have recognized and commended our work. Our staff includes more full-time Certified Health Physicists (28) than any other private organization in the U.S. We also employ Certified Industrial Hygienists, Certified Safety Professionals, and staff with environmental and safety certifications and licenses. Our staff is very active in national and international organizations for protecting worker and public health and has an outstanding professional reputation. Dade Moeller Technical Services, LLC has been formed to perform full-scope radiological field operations or deploy trained, qualified, and competent health physics technicians, supported by experienced managers and supervisors.



MARSSIM Implementation Decontamination & Decommissioning Radiological Surveys Radiation Protection Program Management Licensing and Regulatory Interface Dose Modeling Effluent and Environmental Modeling Health Physics Staff Augmentation NRRPT and CHP Prep Courses Radiological Training

MARSS Responder Wireless Radionuclide Characterization and Response

headquartered near the Nation's Capital

Contact: Mike Davidson 410.421.5454 mdavidson@chesnuc.com www.chesnuc.com

Detroit Edison Fermi 2

George Piccard 6400 N. Dixie Hwy Newport, MI 48182 (734) 586-1825 (734) 586-1883 (fax) higginsh@dteenergy.com www.dteenergy.com

Detroit Edison operates the Fermi 2 Nuclear Power Plant located in Monroe, MI along the shores of Lake Erie. Fermi is a 1200 MW power plant supplying electricity to the metropolitan Detroit area. Fermi's USA Supplier of the Year TLD lab provides dosimetry services to USA facilities and other non-power plant entities.

Duke Power Company

Larry Haynes 526 S. Church Street, Box 1006, MS-EC07F Charlotte, NC 28201 (704) 382-4481 (704) 382-3797 (fax) lehaynes@duke-energy.com www.dukepower.com

Duke Power provides safe, reliable and economical power to the Carolinas. We deliver electricity to more than 2 million customers – balancing the region's growing electricity needs with care for the environment and the communities we serve. We currently operate seven reactors and are proud to support the **NRRPT**. 171 Grayson Rd. Rock Hill, SC 29732 (803) 366-5131 frhamsc@frhamsafety.com



318 Hill Ave. Nashville, TN. 37210 (615) 254-0841 frhamtn@frhamsafety.com

Incorporated in 1983, Frham Safety Products, Inc. continues its sole purpose of manufacturing and distributing products to the Nuclear Power Utilities, DOE, DOD, Naval facilities as well as several industrial accounts and related users of safety supplies and equipment.

From the creators of proven products such as the Totes Overshoe and the Frham Tex II, Frham continues their objective to provide products and services which meet or exceed the specifications set forth by customers and the industries that it serves. These revolutionary new concepts include Life Cycle Cost Management (LCCM), Mobile Outage System Trailer (MOST) and Certified Disposable Products (CDP).

- · LCCM offers products through a systematic approach of life cycle pricing to include disposal at the purchase point.
- $\cdot\,$ MOST provides onsite product storage stocked systematically specified by the customer for easy access and stringent inventory control.
- CDP consists of proven disposables for every application which includes standard and custom specifications to meet your disposable needs.

Among these services and products, Frham also supplies chemical, biological and radiological equipment which will support applications for domestic, biological, nuclear, radiological or high explosive incident sites. This equipment is able to sample, detect and identify chemical warfare agents and radiological materials as well as provide safe-barrier, personal protection from chemical warfare, biological warfare, radiological and TIC/TIM environments.

General Engineering Laboratories, LLC

Bob Wills 2040 Savage Road Charleston, SC 29407 (843) 906-5929 (843) 766-1178 (fax) robert.wills@gel.com www.gel.com

GEL provides the nuclear industry with radiochemistry, bioassay and analytical chemistry support. GEL is a provider of 10CFR61, REMP and hazardous waste characterization to commercial nuclear reactor sites, DOE sites and DOD facilities throughout the US. For information regarding analytical services please contact Bob Wills.



Griffin Instruments

Joanne Glenn 977 Hamilton Lane Kingston, TN 37763 865-335-2593 865-376-1313 (fax) griffininst@comcast.net www.griffin-instruments.com

Calibration, Repair, and Rental of radiological instrumentation.

Refurbished PCM-2s and PCM-1Bs for sale at less than half the price of new. 30 day warranty.

Check out our calibration and rental rates on the "Services" page of our web site.



HARVARD SCHOOL OF PUBLIC HEALTH CENTER FOR CONTINUING PROFESSIONAL EDUCATION Where theory informs practice and practice informs theory ®

The Center for Continuing Professional Education at HSPH offers programs that will enhance your knowledge of current events and useful, problem-solving methods relevant to the radiation protection industry.

You are cordially invited to attend the following 2008 courses:

In-Place Filter Testing Workshop 8/18 - 8/22/08Occupational & Environmental Radiation Protection: Principles & Practices of Radiation Safety 04/07 - 04/10/08Radiation Safety Officer Training for Lab Professionals 06/09 - 06/13/08Radiological Emergency Planning: Terrorism, Security & Communication 08/05 - 08/08/08

Time spent learning with us may be applied towards CEUs for many organizations.

visit www.hsph.harvard.edu/ccpe , call 617-384-8692 or email contedu@hsph.harvard.edu

Louisana Energy Services

Brenda Brooks P.O. Box 1789 Eunice, NM 88231 (575) 394-0156 (575) 394-0175 (fax) bbrooks@nefnm.com www.nefnm.com

On June 23, 2006, LES made history when the Nuclear Regulatory Commission, for the first time, issued a license to construct and operate a gas centrifuge uranium enrichment plant to be known as the National Enrichment Facility, located in Lea County, New Mexico.

LES is owned by Urenco, an independent, global energy and technology group with plants in Germany, The Netherlands and the United Kingdom. LES will use the world's most advanced, energy-efficient and cost effective uranium enrichment technology developed by Urenco. The technology has been used in Europe for over 30 years. The National Enrichment Facility will be on-line in 2009, and will be the only facility of its kind in North America.

Our focus is on providing safe, cost effective and reliable uranium enrichment services for US power plants within a framework of high environmental, social and corporate responsibility standards.

Master-Lee Decon Services

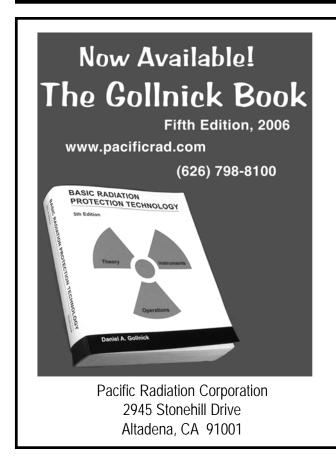
Robert Burns 430 Miller Road Medford, NJ 08055 (609)654-6161 (609)654-1404 (fax) haggar@nothinbut.net

Master-Lee is a leading supplier of refueling, maintenance, inspection, operations and outage management services for PWR Nuclear Power Plants in the U.S. Market and has supported the major NSSS companies in the performance of similar tasks at BWR sites. Master-Lee also designs, fabricates and supplies specialty products, tools and parts in support of our various product lines. These capabilities are provided by our broad range of Product Lines: Refueling and Related Services; Pump and Motor Services; NDE – Eddy Current Testing Services; Specialized Reactor Services; Decontamination Services; Decommissioning Services; Engineered Products; and Technical Services.

MGP Instruments

Audrey Summers 5000 Highlands Parkway, Ste 150 Smyrna, GA 30082 (770) 432-2744 (770) 432-9179 (fax) asummers@mgpi.com www.mgpi.com

MGP Instruments designs, develops, markets and supports operational survey equipment and measurement systems. We are #1 in North America in electronic dosimetry, offering a broad spectrum of detection/protection devices and products for virtually any need. We are also recognized for our outstanding customer support.



RADeCO

Brad Lovendale 509 Norwich Avenue Taftville, CT 06380 (860) 823-1220 (860) 823-1521 (fax) www.radecoinc.com

For over 25 years, RADeCO has set the standard for air sampling in the nuclear industry. We supply the highest quality air sampling equipment, filter media, and sampling cartridges. We also provide a full range of calibration, repair service, and spare parts for all your air sampling and air flow measurement equipment. In addition to being an **NRRPT** Corporate Sponsor, RADeCO offers special discounts to the **NRRPT** membership.

Reef Industries, Inc.

Since 1957, Reef Industries has been manufacturing quality, tear resistant plastic laminates ideal to reduce radwaste disposal costs. Made of cross-laminated high-density polyethylene material, Reef Industries' products offer the greatest tensile strength to weight ratio and are unsurpassed in the industry. Our products are ruggedly durable, lightweight, easily handled and can be custom fabricated to meet your requirements.

Our patented laminates are manufactured using a UV stabilizing process, are fire retardant for safety applications and offer low contamination to protect critical equipment. Available in a range of weights, thickness' and special composites, these products are the ideal choice for a wide-range of applications including concrete curing, custom box liners, containment enclosures, bags, tubing, outdoor storage, shipping covers, secondary containment systems and decontamination pads.

Immediate shipment is available for stock and custom orders.

ri@reefindustries.com www.reefindustries.com

STP Nuclear Operating Company

Bill Bullard, RPM P.O. Box 289 Wadsworth, TX 77843 (361)972-7130 wtbullard@stpegs.com www.stpegs.com

More than fifty registered Radiation Protection Technologists are proud to work at the South Texas Project's two nuclear power plants. These plants, some of the world's newest, produce more than 2500 megawatts of electricity. The plants, and the team that operates them, set industry standards in safety, reliability and efficiency.

UniTech Services Group, Inc.

Gregg Johnstone P.O. Box 289 Wadsworth, TX 77843 (413) 543-6911 (413) 543-2975 (fax) gjohnstone@unitech.ws www.UniTech.ws

UniTech Services Group is the largest protective garment service organization in the world. With 11 licensed plant locations in the U.S. and Europe, UniTech provides waterwash decontamination, protective clothing sales and leasing, respirator cleaning and leasing in addition to both onsite and offsite tool and metal decontamination services.

Illinois Institute of Technology

The IIT Master of Health Physics combines technical depth in radiation physics and government regulation with radiation planning, safety, and instrumentation. Program curriculum includes courses in communication and management, essential for the working professional. No thesis required.

Study at your convenience, part-time and online!

www.bcps.iit.edu/psm

RETN, Inc. of Westminster

Comprehensive NRRPT Exam Preparation courses: 9-day (90 hours) on-site or scheduled, 7-day (70 hours) tutorials (1-3 students). A learning experience, not just a review.

Internal Dosimetry, Radiochemistry Laboratory Techniques, and Gamma Spectroscopy courses; Radiochemistry Laboratory Audits and Assessments; Radiochemistry and HP instrumentation setup and procedures; Staff augmentation, long or short term. Contact: Rowena Argall (303) 438-9655

Server Solutions Server Solutions, Inc. has been developing and hosting

web-based applications since 1996. SSI specializes in applications using database back ends, allowing input

and retrieval of data using a web browser. Technologies

used include Windows 2000/2003 Servers, ColdFusion MX,

MySQL and Microsoft Access databases. SSI's content

management system provides a means for users to update

web content without having to learn HTML or other web

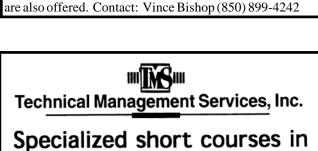
languages. Standard web page hosting and email services

Calvert Cliffs Nuclear Power Plant

Constellation Nuclear, LLC, a member of the Constellation Energy Group, owns and operates the Calvert Cliffs Nuclear Power Plant and Nine Mile Point Units 1 and 2 and Ginna Unit 1. Constellation Nuclear was created to ensure CEG has a reliable, efficient and diversified fuel base for its merchant energy business.

HI-Q Environmental Product Company

HI-Q Environmental Products Co. is ready to help with your stack sampling requirements: State and Federal nuclear regulatory agencies require a stack discharge sampling program as part of the licensing process. Radionuclides discharged to the air in the form of particulate and volatile compounds must be assayed. Therefore, nuclear facilities are required to follow standard protocol for sampling their effluent. Possible emission of radionuclides to the general public has to be monitored in a systematic and acceptable manner. In the U.S., the U.S. Environmental Protection Agency has the authority over such matters, and the current requirements and guidelines for sampling in nuclear stacks and ducts are laid down in ANSI N13.1 1999. Contact: Marc Held (858) 549-2820



Specialized short courses in radiological training...

www.tmscourses.com

Contact: Robin Rivard • rrivard@tmscourses.com (860) 738-2440 • FAX (860) 738-9322

Some of Our Available Merchandise (Colors Vary)



Outerbanks Polo



Jerzee Polo



Short Sleeve Denim



Long Sleeve Denim



Devon & Jones Golf Shirt



Devon & Jones Oxford Shirt



Hat

There are several ways to order your NRRPT merchandise:

- 1) complete the form on Page 19 and fax or mail in;
- 2) go to the NRRPT website and click on the home page link;
- 3) click on the link below (if your viewing this newsletter online)

http://store.nrrpt.org/index.cfm/m/1/fuseaction/store2Catalog.categoryDetail/categoryID/1

NRRPT Merchandise Order Form Logo Apparel

Available Styles & Prices OuterBanks Polo — \$23 Jerzee Pole Denim Long Sleeve — \$21 Denim Sho

Denim Long Sleeve — \$21 Blue Fleece Vest — \$37 Blue Nylon/Fleece Jacket — \$49 Khaki/Navy Hat — \$15 Devon & Jones Golf (Dill or Stone)— \$33 Long Sleeve T-Shirt (Taupe)— \$18 Jerzee Polo — \$18 Denim Short Sleeve — \$20 Khaki Nylon Vest — \$40 Black Nylon/Microfiber Jacket — \$59 Khaki/Black Hat — \$15 Devon & Jones Oxford (Khaki)— \$39

Quantity	Size	Description	Price	Amount
		Orders with less than 5 items — add \$7	7.50 for shipping	
Canadian c	orders: please a	dd an additional \$5.00 for international sh	nipping Total:	

Book

"Problem Solving in Preparation for the NRRPT Exam" by David Waite, Ph.D. and James Mayberry Ph.D. \$27 Each

Price Quanity Amount **Total Amount Enclosed:** \$27.00 ea \$ Total: Canadian orders: please add an additional \$5.00 per book for international shipping Visa or Mastercard Check, Money Order, Send order form with Visa & MasterCard Card#: payment to: Accepted ExpDate: NRRPT Ship to: P.O. Box 6974 **Billing Address:** Kennewick, WA 99336 or fax to: (509) 582-3501

NRRPT® NEWS c/o Bob Farnam P.O. Box 6974 Kennewick, WA 99336



