

# NRRPT® NEWS

## National Registry of Radiation Protection Technologists

Winter 2014 Edition

Incorporated April 12, 1976

### Past Chairman's Message

#### INSIDE THIS ISSUE

Chairman's Message .....	1
Welcome New Members .....	2
Four Part Harmony .....	3
Recipient of the Humm Award .....	4
Photos of the Night Out .....	5
Going Green .....	5
Sponsors .....	6



Kelly Neal

By the time this edition of the newsletter is issued, my term as Chairman will be complete. At the risk of sounding a bit like a broken record, I would like (once again) to thank the Board and Panel for their continued support and dedication to the **NRRPT** and to DeeDee DeGrooth for her continuous help and support for the Registry!

#### CONTACTS

Kelly Neal, Chairman of the Board  
 (509) 845-1358 (w)  
 kelly.neal@wch-rcc.com

DeeDee McNeill DeGrooth,  
 Executive Secretary  
 (401) 637-4811 (w)  
 nrrpt@nrrpt.org

Dwaine Brown, Newsletter Editor  
 (936) 894-9678 (w)  
 (936) 894-2983 (fax)  
 dwaine@embarqmail.com

As I reflect on the past three years, I am particularly proud of the recent work performed by the Board and Panel. The economy and budget constraints have made it difficult for some of them to attend. Even though we have had lower attendance at some of the meetings, they have continued to work on maintaining and improving the **NRRPT**. That being said, we are continually looking for additional members who have the willingness and support to join the Panel of Examiners. Please consider joining the exceptional members who currently serve.

Our industry continues to be in a state of flux, with some facilities shutting down and others trying to start up. Throughout this process, our industry continues to need knowledgeable, qualified technicians and professionals to staff their facilities. We all need to encourage non-members to consider taking the step and joining the **NRRPT**. Members need to maintain their existing knowledge and skills while continuing to learn new ones. Many avenues for learning and refining these skills are available; please make use of them.

I would like to thank all of you for the honor of serving as the Chairman of the **NRRPT**. Please join me in supporting Chairman Eddie Benfield as he leads the **NRRPT** going forward. I truly look forward to his leadership and ideas!

Respectfully,  
Kelly Neal  
NRRPT, Past Chairman of the Board

---

## Welcome New Members

Congratulations to the following individuals who successfully passed the  
**NRRPT** examination on August 17, 2013:

Beth A. Ashley  
Sandra J. Belangia  
Michael R. Coyle  
Christopher E. Dugger  
Steven D. Frey  
Thomas M. Gallagher  
Sheena M. Gause-Lott  
Masood A. Inayat  
Mitiku A. Kelkay  
Timothy P. Kerrigan  
Jeffrey L. Knight

Larry D. Larson  
James V. Logan  
Brenda L. McCord  
James R. McGuire  
Nathaniel G. Meacham  
James F. Murla  
Maria L. Nissen  
Bruce E. Patterson  
Phillip W. Perez  
Jasiri D. Phipps  
Michael S. Plonski

Angel L. Reyes  
Jesse H. Rowberry  
Chris Shaw  
Raymond D. Sims  
James A. Stuart  
Anna L. Talbott  
Witold J. Tatkowski  
Chance C. Theriault  
Diana M. Thompson  
Christopher D. Vanderpool

Congratulations to the following individuals who successfully passed the  
**NRRPT** Canadian examination on August 30, 2013:

Daryl S. Alexander  
Pak Ching Ip  
Duane C. Lambert  
Glenn W. McClung  
Eddie J. Paiva  
Robert W. Scattergood

**New Members:** If you do not have access to the "Members Only" portion of the website, please contact the Executive Secretary ([nrrpt@nrrpt.org](mailto:nrrpt@nrrpt.org)). Your email address must be on file in order for you to gain access.

### 2014 NRRPT Sustaining Dues

It's not too late to pay your 2014 Sustaining Dues and be listed in the 2014 Handbook. Mail your dues payment or go online and pay through PayPal.

## Four Part Harmony (Part 2) "All Hands on Deck"

by Dave Biela and Jeremy Lons



Oxy-Gas Cutting



Set Up For Remote Saw Cutting



HEPA Filter Removal

The second section of "Four Part Harmony" will be highlighting the Decontamination and Decommissioning (D&D) group and their role in the Open Air Demolition (OAD) of the Cement Solidification System (CSS) and the Vitrification Facility Ex-Cell Off-Gas (NOx abatement equipment) System building (01-14 for short) at the West Valley Demonstration Project (WVDP).

### D&D

From August of 2011 to December of 2012 crews performed hands on work to prepare the 01-14 building for OAD. After extensive planning and analysis, Work Instruction Packages (WIPs) were written to provide guidance on how to isolate the 01-14 building's utilities from the remainder of the site. Physical breaks were made in all lines so that the D&D crews could visually confirm that utilities were no longer connected. Data collection of the 01/14 was extensive. Many of areas were unique in their functionality and purposes for processing. Because several of the areas had previously had minor deactivation and decommissioning activities performed, radiological and equipment status had to be verified prior to commencement of major work evolutions. The first step in this was to perform radiological, environmental, waste characterization, and inspections of all aspects of the facility. This included work cells, pipe chases, transfer trenches, utility spaces and ventilation systems.

During this phase of the work the D&D crews:

1. Removed over 2,950' of contaminated utility/process piping.
2. Handi-foamed over 100' of 8" off gas piping, with 40' removed by the D&D crew before OAD and the other 60' of piping that was not easily accessible removed with heavy equipment during demolition.

continued on page 11

**Karen Barcal**  
**Recipient of the Arthur F. Humm Award**  
by Dale Perkins, Awards Chairman



Karen Barcal was presented the Arthur F. Humm, Jr. Award at the **NRRPT** meeting in Madison, WI on July 7, 2013. This award is presented to persons who have given outstanding support to the **NRRPT**. Karen passed the Registry exam in 1992 and became a member of the Panel of Examiners in 2000. She was elected Vice Chairman of the Exam Panel in 2005 and held this position for one year. She was then elected Chairman of the Exam Panel in 2006 and served in this role until 2012. Karen has held lead roles on committees, was elected Fellow status in 2012, is a certified health physicist and avid bowler.

It is with great pleasure to add Karen Barcal to our distinguished list of Arthur F. Humm, Jr. Award recipients. Congratulations Karen!



Some of the Night-Out Attendees



Karen Barcal (center) doesn't know she's the Humm Award Recipient yet

## NRRPT Night-Out in Madison, WI

The NRRPT "Night-Out" continues to be a tradition for Board & Panel members and family & friends of the Registry. Over 40 people attended the Night-Out. This tradition continues due to the generous contributions of our "Night-Out" sponsors and supporters. Thank you to the sponsors below!!



Left to Right: Todd Davidson (Envirachem), Steve Lancaster (Lancaster Services),  
Eddie Benfield (Duke Energy)  
Not pictured: John Arrowsmith (Frham Safety Products), Ken Baugh (B&B Environmental Safety) and  
Jim Posda (The GEL Group)

---

## Going Green

### Save This Copy of the NRRPT Newsletter !

This is the last hard copy of the NRRPT Newsletter, we are now moving into the green, tree-saving, highly efficient and cost effective 21st century electronic age. What this means to you as a member is that the Registry will no longer be spending hundreds of dollars mailing out copies of the newsletter and for those of us that are contract technologists, you will get your newsletter no matter where you are working.

In addition to the efficiency and convenience of newsletter delivery electronically, significant cost savings will be realized by not having to pay color printing costs, thereby increasing the overall savings of publication and delivery.

This action will make this, the final printed issue, a collectable which at some future date you may be able to sell on E-Bay for hundreds of dollars.

Dwaine Brown  
NRRPT Editor



## 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](http://www.bartlettinc.com)**

### Ameren Missouri-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 Ameren Missouri, 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.

### Cabrera Services

473 Silver Lane  
East Hartford, CT 06118  
860-569-0095  
860-569-0277 (fax)  
info@cabreraservices.com  
www.cabreraservices.com

Cabrera Services, Inc (CABRERA) is an industry leader in engineering and remediation services for radioactive, hazardous, toxic, and MEC/UXO sites. Since its founding, CABRERA has distinguished itself through innovative problem solving, dedication to our clients' interests, and top quality deliverables. Safety and regulatory compliance are key corporate values and are integral to every aspect of our work. This approach is reflected in our consistent safety record that is among the best in the industry.

## 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.



Colorado State University OnlinePlus offers several Radiation Safety courses and lectures that are available completely online, allowing you to gain a valuable education without the traditional boundaries of time and location.

### Exam Reviews

Our NRRPT and Health Physics Exam Review courses prepare students with sample questions and answers, as well as test-taking tips.

### Non-ionizing Radiation Safety

Learn about an array of standards, recommendations, and calculations needed to determine the maximum amount of exposure permitted for the safe use of non-ionizing radiation.

### Health Physics Society Conference lectures

Get access to this year's conference lectures completely online.

*"I passed the CHP Part 2 exam! Thanks again for the encouragement and for the availability of the review course you offered. I will recommend it to anybody else who is interested in trying to become certified."*

-Mike Roberson Senior Health Physicist, Division of Radiation Safety

Registration is open, so visit [CSURadiationSafety.com](http://CSURadiationSafety.com) to learn more about the options we offer to further your skill set!



## DZ Atlantic

*A Day & Zimmermann Company*

John Ellison  
5800 East Skelly Drive, Ste 800  
Tulsa, OK 74135  
888-488-0880  
918-743-4867 (fax)  
john.ellison@dzatlantic.com  
www.dayzim.com

Day & Zimmermann provides radiological services to meet the unique demands of the nuclear power industry. We deliver all levels of health physics, decontamination technicians and radiological support as a trusted partner to numerous commercial nuclear power stations across the U.S.

## Detroit Edison Fermi 2

Richard LaBurn  
6400 N. Dixie Hwy  
Newport, MI 48182  
(734) 586-4974  
(734) 586-1883 (fax)  
laburnr@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.

## Duke Energy Corporation

Larry Haynes  
 526 S. Church Street, MS-EC07F  
 Charlotte, NC 28202  
 (704) 382-4481  
 (704) 382-3797 (fax)  
 larry.haynes@duke-energy.com  
 www.duke-energy.com

The new Duke Energy, which is the product of a merger with Progress Energy, is the largest electric power holding company in the United States with more than \$100 billion in total assets. Its regulated utility operations serve more than 7 million electric customers located in six states in the Southeast and Midwest. Its commercial power and international business segments own and operate diverse power generation assets in North America and Latin America, including a growing portfolio of renewable energy assets in the United States. Headquartered in Charlotte, N.C., Duke Energy is a Fortune 250 company traded on the New York Stock Exchange under the symbol DUK.

Duke currently operates twelve power reactors in the Carolinas and Florida and is proud to support the NRRPT.

## F&J Specialty Products, Inc.

Frank M. Gavila  
 404 Cypress Road  
 Ocala, FL 34472  
 352.680.1177/352.680.1454 (fax)/fandjspecialty.com

ISO 9001:2008 certified manufacturer of traditional and advanced-technology air sampling instruments, airflow calibrators, filter holders, consumables and accessories.

Air Sampler product lines include; high and low volume, tritium, C-14 and battery-powered air sampling systems. Various models are available for both portable and environmental sampling systems. Consumable product line includes; filter paper, TEDA impregnated charcoal cartridges and silver zeolite cartridges. F&J provides comprehensive collection efficiency data for radioiodine collection cartridges.

F&J manufactures the premier line of small lightweight emergency response air samplers which can operate from line power, on-board batteries or an external DC power source. Battery powered units have on-board charging systems.

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.
- 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.

## HI-Q ENVIRONMENTAL PRODUCTS COMPANY, INC.

*Air Sampling & Radiation Monitoring Equipment, Systems & Accessories*

HI-Q Environmental Products Company is an ISO 9001:2008 certified designer/manufacturer that has been providing air sampling equipment, systems and services to the nuclear and environmental monitoring industries since 1973. Our product line ranges from complete stack sampling systems to complex ambient air sampling stations. HI-Q's customers include the National Laboratories and numerous Federal and State Agencies in addition to our domestic and international commercial customer base. Our product catalog includes: Continuous duty high & low volume air samplers, radiation measurement instrumentation, radiation monitoring systems, air flow calibrators, radioiodine sampling cartridges, collection filter paper and both paper-only or combination style filter holders. Along with the ability to design complete, turn-key, stack and fume hood sampling systems, HI-Q has the capability to test ducts and vent stacks as required by ANSI N13.1-1999/2011.



### Master-Lee Decon Services

Robert Burns  
430 Miller Road  
Medford, NJ 08055  
(609) 654-6161  
(609) 654-1404 (fax)  
burns-ml@comcast.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.

### Mirion Technologies (MGPI), Inc.

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

Mirion Technologies (MGPI), Inc. provides a full range of instrumentation and engineering services for health physics applications and radiation monitoring systems for all nuclear facilities and civil defense markets. We are #1 in North America in electronic dosimetry. We are more than just a leader in technology. We are also recognized for our outstanding customer support.

### MJW Technical Services

Laurie Losey  
243 Root Street, Ste 100  
Olean, NY 14760  
(716) 372-5300  
(716) 372-5307 (fax)  
laurie.losey@mjwts.com

MJW Technical Services will help you keep your radiological instruments fully functional while providing rapid turnaround and excellent customer service. Our factory-trained technicians with over 100 years of combined experience in the radiological and electronic fields, can calibrate and repair all types of instrumentation including Nuclear Density Gauges in our state-of-the-art facility. MJWTS is the Ludlum Measurements Authorized Eastern U.S. Service Center, Authorized reseller of RAE Systems radiation instruments as well as authorized calibration service partner for RAE Systems and SAIC dosimeters.

Please visit our website at [www.mjwts.com](http://www.mjwts.com) or call toll free 1-866-300-3MJW (3659)

### RADeCO

Brad Lovendale  
17 West Parkway  
Plainfield, CT 06374  
(860) 564-1220  
(860) 564-6631 (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](mailto:ri@reefindustries.com)  
[www.reefindustries.com](http://www.reefindustries.com)



## TIDEWATER INC

MARSSIM Implementation  
Decontamination & Decommissioning  
Radiological Surveys  
Environmental Remediation  
Radiation Protection Program Management  
Licensing and Regulatory Interface  
Dose Modeling  
Effluent and Environmental Modeling  
Radiation Protection Technicians  
Radiological Engineers  
NRRPT and CHP Prep Courses  
Radiological Training

MARSS Responder Wireless Radionuclide Characterization and Response

headquartered near the Nation's Capital

## STP Nuclear Operating Company

Roger Aguilera  
P.O. Box 289  
Wadsworth, TX 77843  
[www.stpegs.com](http://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.



## Technical Management Services

### Specialized Short Courses in Radiological Training

#### Our most popular courses include:

NRRPT/ABHP Exam Preparation, Radiation Detection and Measurement, Effective Contamination Control/ALARA Programs, Gamma Spectroscopy Applications, Radioactive Sample Analysis, Neutron Detection and Measurement, Internal Dose Assessment...

#### Visit our website for the complete course listing

#### Onsite Training

Get more from your training programs with TMS.  
More subjects. More expertise. More customization.  
And...More value.

#### Continuing Education Credits Awarded For All TMS Courses



Robin Rivard  
P.O. Box 226  
New Hartford, CT 06057  
(860) 738-2440  
(860) 738-9322 (fax)  
[rrivard@tmscourses.com](mailto:rrivard@tmscourses.com)  
[www.tmscourses.com](http://www.tmscourses.com)



Gregg Johnstone  
295 Parker Street  
P.O. Box 51957  
Springfield, MA 01151  
(413) 543-6911  
gjohnstone@unitechus.com  
www.UniTechus.com

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.

**ISO 9001 & 14001 Certified**

#### The GEL Group

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 (843) 906-5929

#### 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 are also offered.  
Contact: Vince Bishop (850) 527-8362

Continued from page 3

3. Grouted 75' of 10" off gas piping that was located in an inaccessible shielded pipe chase which was removed during OAD.
4. A 4' dia. x 11' long tank and a 10" dia. x 6' long heat exchanger were drained, filled with foam and sealed so that they could be removed as a sealed package during demolition.
5. Ventilation systems had their HEPA filters removed and had the internals coated with a thick layer of ThermaFlex.
6. Other floor and wall surfaces were covered with other coatings such as ALARA strip coat and PBS.

The work done by these crews was crucial to the successful OAD of the 01-14 building. Their work removed or limited the availability of the radioactive materials in the facility and prevented them from going airborne above limits during the demolition of the building with heavy equipment.

**\*\* PLEASE SUPPORT OUR NRRPT® SPONSORS! \*\***

*NRRPT® NEWS*  
c/o Dwaine Brown  
P.O. Box 3084  
Westerly, RI 02891



### CHANGE OF ADDRESS FORM:

NAME: \_\_\_\_\_

OLD ADDRESS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

NEW ADDRESS: \_\_\_\_\_

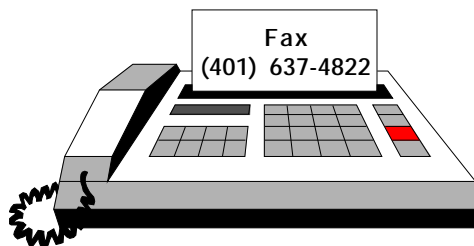
\_\_\_\_\_

\_\_\_\_\_

EFFECTIVE DATE: \_\_\_\_\_ NEW PHONE NUMBER: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

If you have moved, please complete this form so you don't miss out on any issues of the News.



Or mail to:  
NRRPT  
P.O. Box 3084  
Westerly, RI  
02891