



# AMERICAN NUCLEAR SOCIETY EDUCATION & TRAINING DIVISION

## MESSAGE FROM THE CHAIR

It is a pleasure to address you as the incoming chair of the Education and Training Division (ETD) and to be a part of the resurgence of Nuclear Power as a key energy source for the future. I'd like to underline the work of the past chair, Jane LeClair, as she continued the rebuilding efforts of Brian Hajek in re-establishing ETD as one of the leading professional divisions of the American Nuclear Society. It was with great pride and confidence that I addressed the ANS Board this June to discuss the results of our work in communications, workforce development and in awards and programming. Our membership is rising again, and we have just begun the planning for a third CONTE conference that will be held in Florida in February 2007 as a Class 1 ANS Topical. I would encourage all those who have an interest, to participate by adding your voices to the growing chorus and talents of the team.

In terms of focus for ETD, we are engaged in formulating a position statement on workforce development and will be spending an increased amount of our programming effort in looking at capability development for the emerging North American Nuclear Industry. I will be chairing a session in Washington this fall on New Build training development with presentations from China, Europe and Canada. Another clear area of attention will be to leverage off the newly formed young members and the existing Students' sections to form partnerships to encourage incoming industry professionals to contribute to ANS and to the Nuclear Industry overall.

In closing, I would ask that you forward to me any thoughts or suggestions around the mandate of ETD. I can be reached at pierre.tremblay@opg.com.

I look forward to seeing you in Washington in November 2005 and thank you for your support.

Pierre Tremblay  
ETD Chair

## NATIONAL REGISTRY OF RADIATION PROTECTION TECHNOLOGIST

College Credit Recommendations – Excelsior College

The National Registry of Radiation Protection Technologists (NRRPT) was evaluated by The American Council of Education (ACE) Program on Non-collegiate Sponsored Instruction (PONSI). A total of 30 college credits are recommended for members accepted to the Registry from November 1978 to the present. Excelsior College recognizes the credit recommendations of ACE/PONSI.

NRRPT members may apply the 30 credits toward the free elective degree requirements in liberal arts, business, computer and electronic engineering technology.

For the Associate in Science in Nuclear Engineering Technology, 30 semester hours are applied as Nuclear Technology Electives. For the Associate in Science in Technology, 18 semester hours are applied toward the Technical Specialty requirements and 12 semester hours are applied as Technical Electives.

For those choosing to enroll in Excelsior College ([www.excelsior.edu](http://www.excelsior.edu)), credit is awarded after an official transcript is received from the NRRPT office in Kennewick, Washington.

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**COLLEGE CREDIT FOR UTILITY ACCREDITED  
PROGRAMS – COMING FULL CIRCLE**

**Dr. Jo-Ann Rolle, VP – Academic Affairs  
South Carolina State University**

An effort has been completed to assess programs accredited by the National Academy for Nuclear Training (NANT) headquartered at the Institute for Nuclear Power Operations (INPO) in Atlanta that would be applicable to a baccalaureate degree in nuclear engineering technology. The formal recognition of accredited nuclear industry training programs for college credit not only expands the educational opportunities of workers throughout the nuclear industry but will also promote the mobility and career opportunities of individuals who seek to have their training applied to a degree program in an allied technical profession.

In 1982, INPO established an accreditation process that required all utilities to seek the accreditation of their operator, maintenance, and technical programs. In 1985 (NANT) was formed at INPO to integrate the nuclear industry training-related activities. That was followed by the 1985 NRC endorsement of the INPO accreditation process. In 1993 the

NRC established a final rule requiring that industry-training programs be established, implemented, and maintained using the systematic approach to training (SAT). The NRC went on to say that INPO accreditation was a means of compliance with federal regulations.

In two decades, training in the commercial nuclear industry has evolved from a minimal commitment of budget and instructors to a world-class benchmark of excellence. Today NANT's uniform, mature and focused accreditation process ties all of the 100+ operating plants together.

**Getting College Credit:**

The estimated utility population, without college degrees, involved in the NANT accredited programs is over ten thousand. Many of these workers will be retiring causing a looming shortage of workers and managers.

As new workers enter the commercial nuclear field they will find new requirements for college degrees in many existing and redesigned jobs as well as management and supervisory positions.

Excelsior College (EC) (formerly known as Regents) in Albany, NY, began awarding college credits for the US Navy Nuclear Training in 1984. Many naval personnel went on to earn a Bachelor of Science Degree in Nuclear Engineering Technology (BSNET) largely through taking the remainder of the degree required courses at other collegiate institutions and through distant learning. Beyond the BSNET degree, which is accredited by the Accrediting Board for Engineering and Technology (ABET), Excelsior College also offers a Bachelor of Science in Technology (BST) with a technical specialty, along with other degree programs such as a Bachelor of Science in Electronics Engineering Technology (BSEET) \*\*

and Associate in Science in Technology with a specialty in Chemical, Electronic/Instrumentation, Electromechanical or Nuclear Technology.

\*\* Also accredited by ABET

Evaluation teams comprised of experts in commercial nuclear training and nuclear engineering visited selected utility sites and made a line-by-line comparison of the Excelsior College, Naval Nuclear and NANT objectives and criteria for each of the 10 selected accredited programs. The evaluation teams found a strong alignment between the BSNET requirements and the Senior Reactor Operator, Reactor Operator, Shift Technical Advisor and Engineering Personnel program requirements. There was also a similar alignment between the BST degree requirements and the other NANT accredited programs. The data from all of the visits was compiled and presented to the EC Nuclear Technology faculty who assigned credit based on the evaluation visits and team recommendations. Nuclear facility personnel who have successfully participated in a NANT accredited program since 1990 and completed it can potentially receive the following credit toward a baccalaureate degree:

- RO – up to 46 credits
- SRO – up to 52 credits
- NLO – up to 37 credits
- STA – up to 46 credits  
(up to 52 if SRO licensed)
- ICT – up to 33 credits
- EMT – up to 27 credits
- MMT – up to 24 credits
- CT – up to 36 credits
- RPT – up to 39 credits
- ESP – up to 27 credits

. Interested graduates of the NANT accredited programs can contact Excelsior College ([www.excelsior.edu](http://www.excelsior.edu)) for an informal evaluation of earned credit and courses needed to complete a college degree.

**Conference on Nuclear Training and Education  
(CONTE III)**

**February 4-7, 2007 - Jacksonville, FL  
(check ANS Website – January 2006)**

**2005 Training Excellence Awards Recipients**

**Dr. Jo-Ann D. Rolle, VP Academic Affairs  
South Carolina State University**

**Dr. Jane A. LeClair, Accreditation Coord.  
Nine Mile Nuclear Generating Station**