The Nuclear Institute
The Professional Institute for the Nuclear Industry

- For the promotion of high standards of education and professional performance amongst those engineers, scientists and others working within the nuclear industry

Background

- British Nuclear Engineering Society
  - Learned Society
  - Registered Charity
  - Governing Board
    - Predominantly PEIs
  - ANS and ENS links
  - Events
    - Trading arm
    - Journal

- Institution of Nuclear Engineers
  - Professional Engineering Institution (PEI)
    - Registered Charity
    - Governing Council
    - Licensed with the Engineering Council
    - Events
    - Journal

- Similar aims, size and fit
  - Amalgamated in 2008 to form the NUCLEAR INSTITUTE
Current remit

- The **Nuclear Institute** is a Registered Charity
  - Charity Commission number 1125404
- **Charitable objectives** are designed to provide:
  - Advancement of *education and training* related to *nuclear science, engineering and technology*;
  - Run *events*;
  - Offer *professional membership* services;
  - In the interests of *public safety*, the *promotion of high standards* of education and professional performance amongst those engineers, scientists and others working within the nuclear industry;
  - Develop expertise for the *benefit* of its members
  - Promotion of the *public understanding* of nuclear sciences and the *impact on society and the environment*.

Governance

- **President Norman Harrison**
  - Strategy Director, Babcock
  - Ex CEO UKAEA, Director Dounreay & Station Director Sizewell B

- Board of Trustees
  - 15
  - Elected on a rolling 3 yearly basis

- ~ 1900 members
  - 50/50 Professional/Learned Members
  - Many Learned Members are registered as professional engineers through another PEI
What makes the Nuclear Institute different from other institutes/institutions?

- Not discipline specific - acceptance of all Nuclear Professionals
- The extension of the understanding and practice of safety to specifically include safety culture, nuclear safety and security as well as the general quality, health, safety and environment requirements that are included in the membership and registration requirements of other professional institutes.
- This we call the ‘Nuclear Delta’

Nuclear Delta

- In the context of an individuals professional responsibilities a general understanding of
  - Nuclear Safety
  - Nuclear Security
  - Safety Culture
- Basic principles of nuclear energy
- The broad UK nuclear industry
- A commitment to good personal behavioural safety
MEMBERSHIP of the NI

- Professional Membership
  - Fellows (FNucl)
  - Members (M Nucl)
  - Associate Members (AMNucl)
  - Technician Members (TechNucl)
  - Graduate Members
  - Student Members

- Learned Society membership
  - Learned Members, open to anyone with an interest in matters nuclear

- Company membership
  - Partner Companies
  - Company Members

- Journal Subscribers

Professional Membership

- Open to all nuclear professionals, not now limited to engineers and scientists
- All must demonstrate they satisfy the ‘Nuclear Delta’
Professional Registration

- NI has a 5-year License from the Engineering Council to register suitably qualified professional engineers working in the nuclear industry as:
  - **Chartered Engineer** (CEng)
    - Normally associated with Fellow or Member status
    - The title CEng is protected by **civil law** and is one of the most recognisable international engineering qualifications.
  - **Incorporated Engineer** (IEng)
    - Associate Member status
  - **Technician Engineer** (EngTech)
    - Technician Membership status
- It also has 5-year license from the Science Council to register suitably qualified professional scientists working in the nuclear industry as:
  - **Chartered Scientist**
    - Normally associated with Fellow or Member status

What attributes do ‘Members of the Nuclear Institute’ have?

- **Develop appropriate solutions** to nuclear engineering problems.
- **Develop and apply new technologies**, promote advanced **designs** and design methods and introduce new and more efficient **production** techniques, or pioneer new engineering **services** and **management** methods, in the nuclear context.
- Variously engaged in nuclear related **technical** and **commercial leadership** and possess effective **interpersonal skills**.
- Demonstrate the **Nuclear Delta**
Associate Members?

- ** Maintain and manage** applications of current and developing technology, and may undertake engineering design, development, manufacture, construction and operation within the nuclear industry.
- **Variously engaged in nuclear technical and commercial management** and possess effective interpersonal skills.

Technician Members

- **Solve practical engineering problems.** They are professionals with **supervisory or technical responsibility**, and **apply safe systems of working** with a nuclear context.
- **Contribute** to the design, development, manufacture, commissioning, decommissioning, operation or maintenance of nuclear related products, equipment, processes or services.
- **Apply proven techniques and procedures** to the solution of practical problems in a nuclear environment.
Fellows

- Meet the requirements for Member
- Normally awarded to people in senior positions who have made a significant contribution to the nuclear profession.

Continuous Professional Development

**CPD** – All professional applicants are expected to demonstrate a minimum of two years’ prior IPD/CPD activity and must continue to participate in and record CPD throughout their working lives in order to retain their professional status.
Course Accreditation/Endorsement

- The NI accredits both academic IPD courses in conjunction with IChemE and IMechE to full Engineering Council(EC) standards
- The NI does not itself have an EngC licence to accredit but does endorse similar courses in its own right and approve Technician Engineer courses.
- Contributes to SciC accreditation visits

Interested?

- [http://www.nuclearinstitute.com](http://www.nuclearinstitute.com)
- Membership section
  - Download Application form
  - ‘Competence and Commitment’ form
- Copy of educational and professional attainments
- Cheque!