

# Team Undead

## Milestone 2 Report Team Undead Members\*

Team Leader: Jason Tryon

Lead Programmer: Craig St. Jean

Graphic Designer: Mark Daniels

\*All responsibilities (programming, designing, etc.) are shared amongst all of us. Despite what our titles may indicate.

## Contact Team Undead

For any questions or comments in regards to Team Undead, their work, or a specific member please contact Jason Tryon at [jtryon@cs.kent.edu](mailto:jtryon@cs.kent.edu) or [jason.stormwind@gmail.com](mailto:jason.stormwind@gmail.com)

## Textual Content

### About Us -> Our Logo

Our corporate logo, shown above, is a stylized version of Madame Marie

Curie's Nobel Prize winning work, proving that radioactive emissions carry positive, negative and neutral charges. Mme. Curie placed a piece of pitchblende (Radium) in a hole in a block of lead and allowed its radiation to emanate toward a photographic plate in a magnetic field. In such an environment, positively charged emissions will be deflected to the right, negatively charged emissions will be deflected to the left, and neutrally charged emissions will be unaffected. By interposing a photographic plate, three areas of darkening were observed. Through these observations, Mme Curie realized that radioactivity (her term) had at least three components which she labeled after the first three letters of the Greek alphabet; alpha (+) particles, beta (-) particles and gamma (neutral) emissions.

## Services

Associates In Medical Physics LLC offers a complete line of medical physics consulting services (excluding Therapy) as follows:

- AMP's ICANL Services includes assistance with the preparation of the ICANL application, assistance with the development of policies and procedures for your department to meet the Standards of ICANL and the performance of semi-annual visits to maintain those high standards.
- Our Education services include several courses of instruction for Physicians, Technologists, Pharmacists, Administrators and Radiation Safety Officers (RSO) as well as regular in-service educational programs at client facilities for medical, technical and administrative staff.
- Our Nuclear Medicine services include quarterly (usually) site visits and quality assurance programs. Acceptance testing of nuclear medicine cameras is also available.
- Our Radiology services include a comprehensive quality control program for radiology, including radiographic/fluoroscopic units, C.T., M.R.I. and mammography units. Fetal dose estimates and shielding design estimates and evaluations as well as acceptance testing, radiographic equipment are also available.
- Our License Preparation services include preparation, maintenance, and investigative applications for NRC/Agreement State Radioactive Material Licenses.

- Our Radiation Survey services include a comprehensive medical physics audit for diagnostic radiology and nuclear medicine.
- Our Calibration/Wipes services include an evaluation of all survey instruments and dose calibrators as well as wipe test evaluations of all sealed sources.
- All AMP staff members are full-time consultants, therefore all above services are during normal working hours. MEDICAL PHYSICS CONSULTING IS OUR ONLY BUSINESS.

### **Services -> ICANL**

**When you are considering ICANL accreditation for your laboratory, you should also weigh the dedicated time that must be involved in the application process, which, although not all inclusive, contains the following:**

- Review of the Essentials and Standards
- Making modifications in clinical practice for compliance with imaging and professional organizations, such as ACC/AHA and ASNC guidelines
- Updating of present protocols and writing new procedures and protocols required by ICANL
- Making copies of required procedures and protocols for submission with the application
- Completion of the application
- Preparation of case studies for submission to the Core Laboratory for evaluation

The ICANL consultant from AMP will work very closely with your Technical Director in acquiring the necessary information and data to complete the application and alleviate the challenges involved in the accreditation process. The dedicated time to prepare the application by your staff member and the likely lost revenues could reach tens of thousands of dollars because of the time and unfamiliar requirements of ICANL. AMP can assist your laboratory in meeting the standards of ICANL and expediting the application process.

### **ICANL SEMI-ANNUAL VISITS**

AMP also offers semi-annual visits to assist in the maintenance of

commitments made in the application and ICANL's Essentials and Standards. This is followed by a summary report compiling the findings and offering suggestions to correct any deficiencies. AMP'S ICANL consultants are available by telephone and written correspondence for problem solving. Please review how a [sample contract](#) would read.

## **Services -> Nuclear Medicine**

**The comprehensive quality assurance programs offered by Associates in Medical Physics, LLC, are designed to help your department produce high quality images and accurate test results in vivo and in vitro. They will also ensure compliance with the regulatory requirements.**

### **Quality Assurance Programs**

- Provide [scintillation camera acceptance testing](#).
- Q.C. checks of cameras, uptake and well detectors and dose calibrators with a review of counting/handling procedures.
- Review and recording of film records to establish exposure trends.
- Evaluating exhaust ventilation systems for license and EPA (NESHAPS) compliance.
- Perform surveys for contamination and excessive radiation.
- Review of the Quality Management Program.
- Provide appropriate signs, postings, and notices.
- Alert clients to changing regulations or their interpretations.

## Quarterly Site Visits

Associates in Medical Physics provides quarterly site visits with clients to audit the radiation safety program. This is followed by a summary report compiling the findings and offering suggestions for correction of any deficiencies. Further, medical physics consultants are always available for problem-solving by phone contact. Please review how a [sample contract](#) would read.

## Services -> Radiology

**Associates in Medical Physics, LLC provides comprehensive quality control programs for Radiology including radiographic/fluoroscopic, CT, Mammography and MRI to assist the client in attaining compliance with federal, state, and JCAHO standards. Annual calibration visits are documented by a complete summary report complete with data derived from our evaluations, followed by recommendations for correcting any deficiencies.**

### Radiology Programs

- Evaluations of all **DIAGNOSTIC X-RAY EQUIPMENT**, checking for performance, safety and output measurements. Please review how a [sample contract](#) would read.
- **MAMMOGRAPHIC** unit evaluation and QA program evaluation for compliance with ACR, MQSA and any applicable state regulations. Please review how a [sample contract](#) would read.
- Complete **CT QUALITY ASSURANCE** evaluation, to include dosimetry. Please review how a [sample contract](#) would read.
- **CT DOSIMETRY ONLY**. Please review how a [sample contract](#) would read.

read.

- **MRI** performance evaluation and compliance testing. Please review how a [sample contract](#) would read.
- Review of all **RADIATION SAFETY POLICIES AND PROCEDURES** with attention to compliance with regulations and JCAHO standards.
- Review of **FILM BADGE REPORTS**, analyzing for effectiveness of personnel radiation safety practices.
- **FETAL DOSE ESTIMATES.**
- **ROOM SHIELDING DESIGN AND EVALUATION.**
- **ACCEPTANCE TESTING** of diagnostic equipment to include radiographic fluoroscopic, mammography, CT and MRI.

### **Services -> License Preparation**

**The national scope of our consulting services provide the professionals within Associates in Medical Physics, LLC, with a broad and current understanding of NRC and state regulations. This experience is a major ingredient in our ability to assist our clients in completing all aspects of license compliance.**

#### **License Preparation**

**We prepare applications for NRC and state licenses to use radioactive materials and/or radiation producing equipment as used in hospitals and clinics. Applications for amendments to existing licenses are also prepared as necessary**

#### **License Maintenance**

**We provide for maintenance of licenses and registrations through periodic inspections of equipment and procedural reviews. We conduct thorough evaluations to ensure that the client meets the required standards.**

### **Investigational New Drug Applications**

The field of Nuclear Medicine is constantly changing. Newer and better diagnostic and therapeutic agents are constantly under investigation. We assist in the preparation of Investigative New Drug applications (IND's) as a special service for our clients who work with experimental agents.

### **Services -> Radiation Survey**

A key component of the consulting services of Associates in Medical Physics, LLC, is a comprehensive medical physics audit of your entire radiation safety program. All audits are conducted during regularly scheduled visits - usually on a quarterly basis for Nuclear Medicine, and an annual basis for Radiology.

#### **Assisting with Regulatory Compliance**

Our audits serve as a tool for complying with conditions and commitments made under the ALARA, JCAHO, NRC and state programs. This audit provides adequate documentation for the many requirements of licensing and accrediting organizations.

#### **Attend Radiation Safety Meetings**

Consultants from Associates in Medical Physics will attend and assist in your radiation safety committee meetings when they coincide with regularly scheduled site visits.

### **Services -> Calibration/Wipes**

**Quarterly site visits by Associates in Medical Physics, LLC, includes an evaluation of all survey instruments and dose calibrators to ensure that patients and occupational personnel are protected against unnecessary exposures.**

## **Dose Calibrators**

**Associates in Medical Physics evaluate all dose calibrators in use at our contracted facilities, checking for accuracy, constancy, geometry and linearity.**

## **Wipe Testing**

**Site visits include a quarterly inventory of all sealed radioactive sources and semi-annual wipe tests of all applicable sealed sources. Our wipe testing evaluation service is also available to non-contracted facilities.**

## **Survey Meter Calibration**

We evaluate quarterly and calibrate annually all survey meters. Our survey meter calibration service is also available to non-contracted facilities.

## **Offices/Contacts**

### **Offices of Associates In Medical Physics, LLC**

#### **Corporate Headquarters**

Associates in Medical Physics  
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## Certifications

**Associates In Medical Physics, LLC is one of the few, if not only, national medical physics consulting services with members certified in both Nuclear Medicine and Diagnostic Radiology. Many of our members are also licensed by the states of Texas, Florida and other states in their respective fields of expertise. Others are considered Qualified Experts (QE's) or Certified Radiation Experts (CRE's) in the states in which they work. Certifications are as follows:**

- **American Board of Radiology:**
  - Certified in Diagnostic Radiology
- **American Board of Science in Nuclear Medicine:**
  - Certified in Nuclear Medicine Physics and Instrumentation
  - Certified in Radiation Protection
- **American Board of Health Physics:**
  - Certified in Health Physics
- **American Board of Medical Physics:**
  - Certified in Medical Health Physics
  - Certified in Nuclear Medicine Physics
- **American Registry of Radiologic Technologists**
  - Radiography
  - Mammography
  - Quality Management
- **Texas Board Of Licensure for Medical Physicists:**
  - Licensed in Diagnostic Radiological

Physics

Licensed in Medical Nuclear Physics

Licensed in Medical Health Physics

- **Florida Medical Physics Licensure:**

Licensed as a Diagnostic Radiological  
Physicist

Licensed as a Medical Nuclear Physicist

Licensed as a Medical Health Physicist

- **Hawaii Radiation Source License:**

Licensed in Medical Physics (Diagnostic Radiology and Nuclear  
Medicine)

- **New York Medical Physics:**

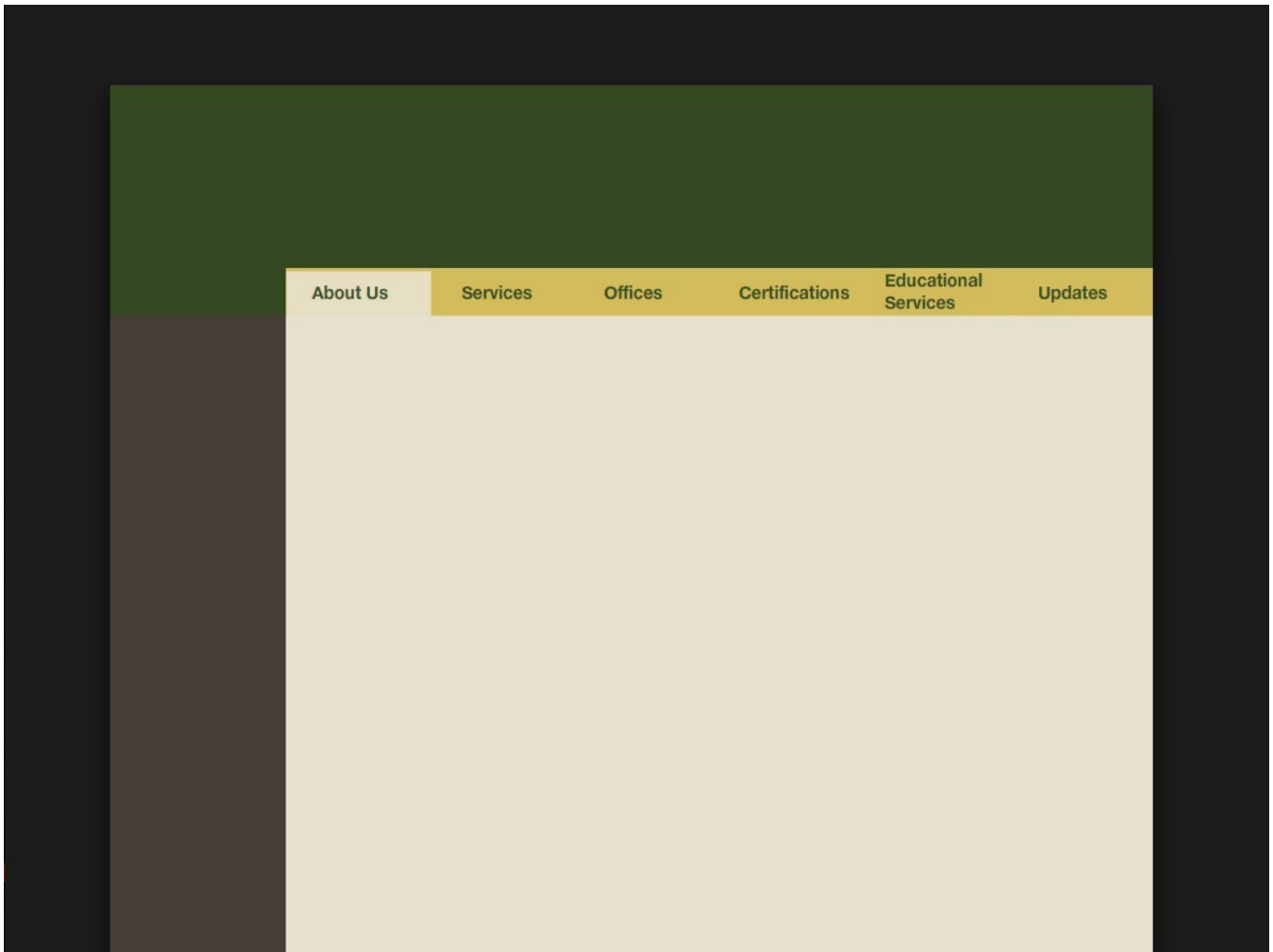
Licensed in Diagnostic Radiological and Medical Health Physics

## **More AMP, LLC Criticism**

While Associates in Medical Physics, LLC was criticized in Milestone 1, the author would like to touch upon a couple more finer details that were not mentioned previously. While the textual content of the site is done fairly well and very little of it needs rewritten it's overall presentation is not. An important detail is the graphics used in the site. The images used to help get the information across consists of "loud" ClipArt that completely overshadows the text. So what Team Undead decided to do was use very few images for the site, specifically speaking stock photos related to physics and consulting. This way the message will still be portrayed appropriately and not drown out the text. Another benefit of using stock photos is that they will bring an aura of professionalism that was not before present in the original Associates in Medical Physics, LLC website.

Note: Stock photos have not yet been selected.

# Graphics for Site



Above image is the site layout with buttons present. Buttons will have Flash capabilities.



The above image here is the logo of the site reworked.