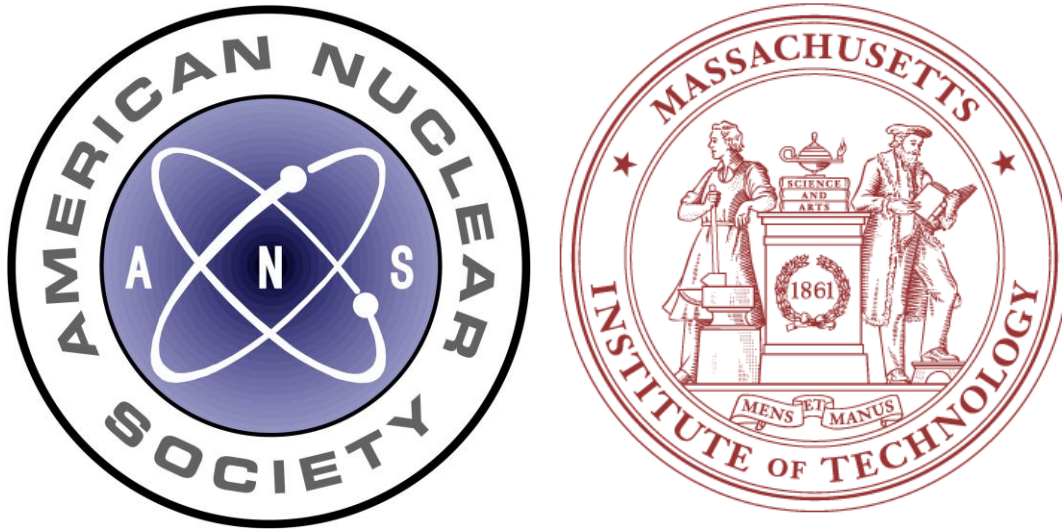


# 2013 American Nuclear Society Student Conference Proposal



“Public Image of the Nuclear Engineer”

The Massachusetts Institute of  
Technology

ANS Student Section



March 7, 2012

Student Sections Committee  
ANS Education and Training Division

Dear ANS Student Sections Committee,

The Massachusetts Institute of Technology American Nuclear Society Student Section is pleased to present its proposal to host the 2013 ANS Student Conference.

Our Department of Nuclear Science and Engineering – or Course 22 as we often refer to it at MIT – has grown tremendously in the past decade. With this growth has come new enthusiasm in participating in ANS. **It has been 18 years since we last hosted a student conference**, and while the conferences have grown significantly in stature and size since then, we are ready to embrace the opportunity to build upon that success by hosting the 2013 Student Conference.

MIT's 2013 Student Conference proposal differs slightly from previous years by adding a politically-conscious theme – “Public Image of the Nuclear Engineer” – in hopes of enhancing awareness of nuclear engineering as a uniquely political engineering discipline. As part of this theme, we will film and launch a video outreach project during the conference.

The MIT ANS Student Section is excited to have the opportunity to host the 2013 ANS Student Conference and share the wonderful resources at MIT with students from around the world.

Sincerely,

A handwritten signature in black ink, which appears to read "Mark W. Reed". The signature is fluid and cursive, with the first name "Mark" being more prominent than the last name "Reed".

Mark W. Reed  
Ph.D. Candidate  
MIT Department of Nuclear Science and Engineering  
Student Conference Proposal Committee Chair

## Table of Contents

Executive Summary	4
Introduction and Background	5
MIT ANS Student Section	5
MIT and Cambridge	6
Boston: America’s Education Hub	7
The Global Presence of MIT NES	8
Conference Theme	10
“Public Image of the Nuclear Engineer”	10
The “I’m a Nuke” Campaign	10
Conference Program	12
Conference Facilities	12
Proposed Conference Program	16
Proposed Conference Schedule	18
Speaker Recruitment	22
Accommodations	23
Contingency Plans	24
Travel and Transportation	25
Conference Committee	27
Committee Organization	27
Committee Member Role Descriptions	28
Decision Making Process	38
Daily Staffing	39
Finance	40
Banking	40
Liability	40
Budget	41
Sponsorship and Fundraising	43
Schedule and Milestones	44
Endorsements	45

## Executive Summary

The Massachusetts Institute of Technology American Nuclear Society (MIT ANS) student section has hosted the student conference three times – 1969, 1981, and 1994. Since then, the student section has grown to over 100 active members representing the department's various fields of study. The [MIT Department Nuclear Science and Engineering](#) (NSE) – or Course 22 as it is commonly known at MIT – offers a unique environment where fission, fusion, and nuclear science and technology students work together to advance the state of the art in nuclear science and engineering. Our department motto is “**science – systems – society**”.

As the 21<sup>st</sup> century enters a new decade, the nuclear renaissance takes on a new meaning. While the deployment of advanced reactors and fuel management technologies has progressed more slowly than anticipated in the early 2000s, the need for nuclear to provide for the world's growing energy demand is clear. The way nuclear addresses this situation remains to be defined, and will ultimately be driven by innovative solutions to the evolving challenges facing nuclear energy.

These challenges are not only technical, but also political. As nuclear engineers, we face not only engineering challenges, but also public image challenges. This is especially true in today's post-Fukushima political environment. Our conference theme – “**public image of the nuclear engineer**” – will be aimed at developing awareness of these political challenges and inspiring young nuclear engineers to **engage society** in ways that reflect positively on nuclear technology.

## Introduction and Background

The Massachusetts Institute of Technology American Nuclear Society Student Section (MIT ANS) features a growing membership base of students keen on participating in ANS on a national level. With this enthusiasm, the students and faculty in MIT ANS are eager to build on the success of previous student conferences, and inject new elements into the traditional student conference format. With that in mind, MIT ANS proudly presents its proposal to host the 2013 ANS Student Conference.

The proposal is written in five sections: introduction and background; conference program; transport and accommodations; conference execution; and conclusions. The proposal is intended to demonstrate MIT ANS' capability to host the conference, so exhausting detail about Massachusetts, Cambridge, MIT, MIT's College of Engineering, and MIT Department of Nuclear Science and Engineering are excluded from this proposal. If the reviewers should have any questions on these topics, feel free to contact [MIT NSE](#) or [MIT](#) itself.

### *MIT ANS Student Section*

While slightly different in operation from many student sections across the country, MIT ANS shares the fact that it has grown at an astonishing rate in the past several years. As the department's enrollment continues to increase, student interest in a campus organization that promotes leadership and involvement in nuclear engineering has skyrocketed. Our members now include students with backgrounds that include nuclear engineering, and range from medicine to business to law.

The recent growth in membership has enabled us to develop a core group of students committed to hosting an ANS student conference. We have assembled a dedicated

organizational structure, with guidance from two former conference chairs, a former conference treasurer, and a former conference honorary chair that is capable and ready to host a student conference.





## *MIT and Cambridge*

Cambridge is located in Middlesex County in Massachusetts. Named in honor of the University of Cambridge in England, Cambridge has become a hub for academic leadership as the home of Harvard University and MIT.

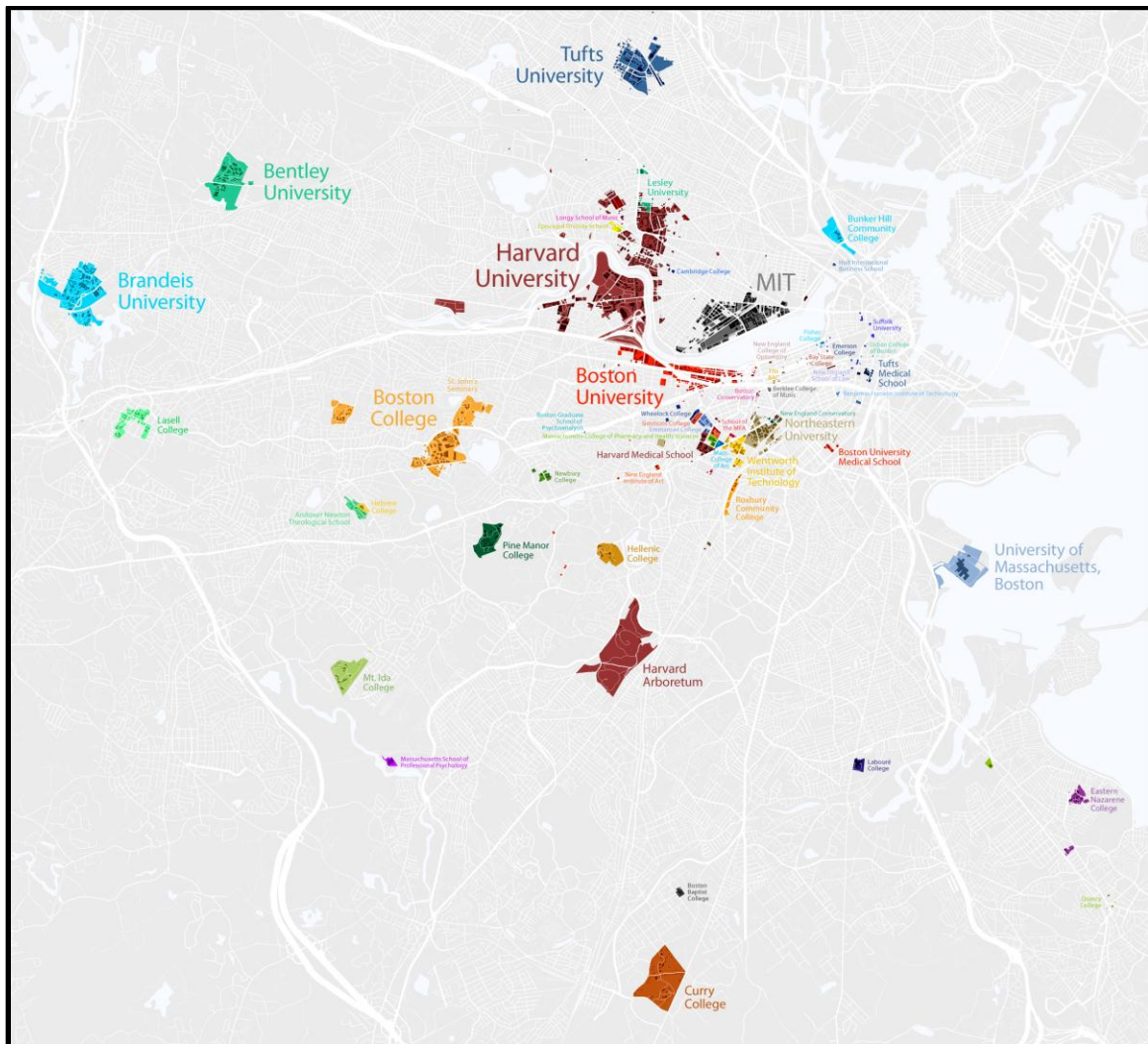
Located across the Charles River from Cambridge is Boston, one of the oldest cities in the United States. As the site of Boston Tea Party and Paul Revere's famous ride (among many famous events), Boston is deeply entrenched in American history. The tradition and history of the greater Boston area make it a culturally rich place to visit.

MIT was founded in 1861 as an educational institutional for the advancement of science and technology. As of 2010, 4,232 undergraduate students and 6,152 graduate students were enrolled at MIT.



The map displays the following institutions and their locations:

- North End (Red):** Tufts University, Harvard University, Boston University, Harvard Medical School, Harvard Arboretum, Boston University Medical School, Northeastern University, Wentworth Institute of Technology, Boston University Medical School, Eastern Nazarene College.
- Downtown Crossing (Orange):** Boston College, Boston University, Boston University Medical School, Northeastern University, Wentworth Institute of Technology, Boston University Medical School, Eastern Nazarene College.
- South End (Green):** Bentley University, Lesell College, Mt. Ida College, Boston University Medical School, Eastern Nazarene College.
- West End (Blue):** Brandeis University, MIT, Boston University Medical School, Eastern Nazarene College.





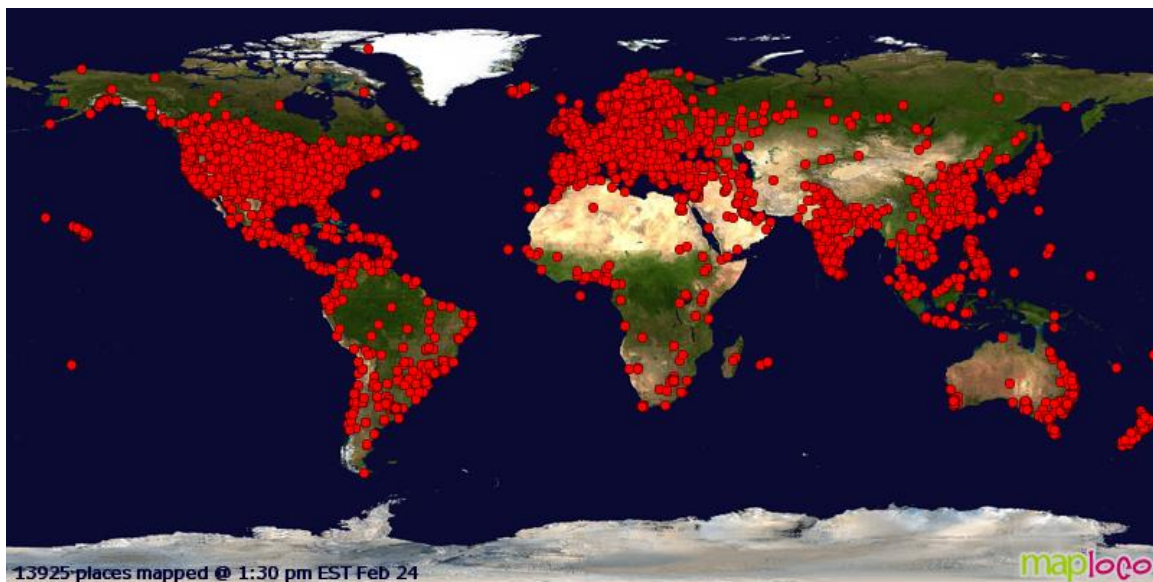
## *The Global Presence of MIT NSE*

In the wake of the 2011 Great East Japan Earthquake and resultant Fukushima nuclear crisis, the MIT ANS Student Section launched the [MIT NSE Nuclear Information Hub](#). This was a student-run and faculty-advised blog to disseminate accurate information about the events unfolding in Japan as well as about nuclear technology in general. About a dozen highly-motivated students freely gave time out of their busy lives to write entries.

In its first five days, this blog “went viral” and received well over one million hits from 176 countries. It received over twice as many views from Tokyo than from any other world city, even though Tokyo is not populated by native English speakers. It received mentions in *The Economist*, *The Atlantic*, and the *New Scientist*. Clearly, this blog provided a great service to the Japanese people as well as to the international community.

The following maps show distributions of blog viewers. Clearly, the MIT ANS Student Section has already proven itself capable of establishing a positive global presence. We did it once with the Nuclear Information Hub, and we’d be thrilled to do it again with the 2013 ANS Student Conference.

### **Viewers Worldwide**







## Conference Theme

### *“Public Image of the Nuclear Engineer”*

As nuclear engineers, our work is not only technical, but political. We don't just have engineering challenges - we also have public image challenges. We can perform dazzling technical work to solve the world's energy problems, but if we fail to control our public image, all our work is in vain. As nuclear engineering professionals, it is essential that we remain conscious of the political implications of our work.

This is especially true right now. In today's uncertain post-Fukushima political climate, we sit on a cusp, a tipping point. We could progress into a global realization of the nuclear renaissance, or we could regress into a fear-driven anti-nuclear paradigm. Our conference theme – “public image of the nuclear engineer” – is aimed at training nuclear engineering professionals to be effective communicators. As nuclear engineers, this is just as important to our **professional development** – and the future of our entire discipline – as technical expertise.

### *The “I’m a Nuke” Campaign*

There's an unfortunate stereotype of nuclear engineers. They're old, extremely non-diverse, and extremely out-of-touch with popular culture. We want to break that stereotype by **humanizing the nuclear engineer** – showing the public that today's nuclear engineers are young, diverse, and, as Steve Jobs would say, “insanely great”.

We will provide a professional video crew that will film in one room at the Marriott during the entire conference. Upon registration, students can sign up for a 15-minute time slot to be filmed in this room. They will sit in a comfy chair, look in the camera, and say a few things about themselves – what their passions are, why they chose to become a nuclear engineer, why they believe that nuclear energy is vital to our future, what their favorite color is, or even what their favorite type of reptile is.

Every person will conclude their session by stating “I’m Jane Doe, and I’m a Nuke”. The students can say anything they want, even funny or extraordinary things about themselves that are unrelated to nuclear engineering. Humor is encouraged. The point of this project will be to **put faces on nuclear engineers**. It's hard to demonize someone who you can relate to.

This will be somewhat similar in format to the [“I’m a Mormon”](#) campaign. Mormons have a similar stereotype problem – many people view them as culturally antiquated, extremely non-diverse, and extremely out-of-touch with popular culture. They decided to counter such stereotypes by creating a video project with all sorts of interesting (and devoutly Mormon) people who smash that stereotype – racial minorities, punk surfers, and every sort of hipster. It’s extremely effective in terms of improving the public image of Mormons.

Additionally, MIT has a small collection of videos featuring [“the human factor”](#) of students. This website was highly effective in MIT’s recent fundraising efforts. We envision something very similar in look and format for the “I’m a Nuke” videos.

These “I’m a Nuke” videos will be edited so that each student has a two or three minute video. They will be uploaded to a professional website (perhaps [imanuke.com](#) or something similar) administered by MIT NSE for the whole world to see. They could also be put on YouTube. Some of them might even be funny enough to go viral. It will be the beginning of a **campaign** to improve the public image of nuclear engineers and the technology they create.

## Conference Program

The conference will feature podium presentations and a poster session. MIT ANS also plans to offer an optional paper track. MIT ANS will work with ANS Publications to arrange for the best papers to be published in a special edition of Nuclear Science and Engineering. This is not a guaranteed course of action, but MIT ANS hopes such an agreement can be arranged.

Finally, MIT ANS plans to host themed plenaries featuring experts at the end of the morning and afternoon sessions to further elaborate on advances in the fields of research the students are pursuing. This is intended to replace the professional presentations that follow each technical track.

Tentative presentation and paper tracks include: Accelerator Applications, Aerospace Nuclear Science and Technology, Biology and Medicine, Education and Training, Environmental Sciences, Fuel Cycle and Waste Management, Fusion Energy, Human Factors, Isotopes and Radiation, Materials Science and Technology, Mathematics and Computations, Nuclear Criticality Safety, Operations and Power, Policy, Radiation Protection and Shielding, Reactor Physics, Student Sections, and Thermal Hydraulics.

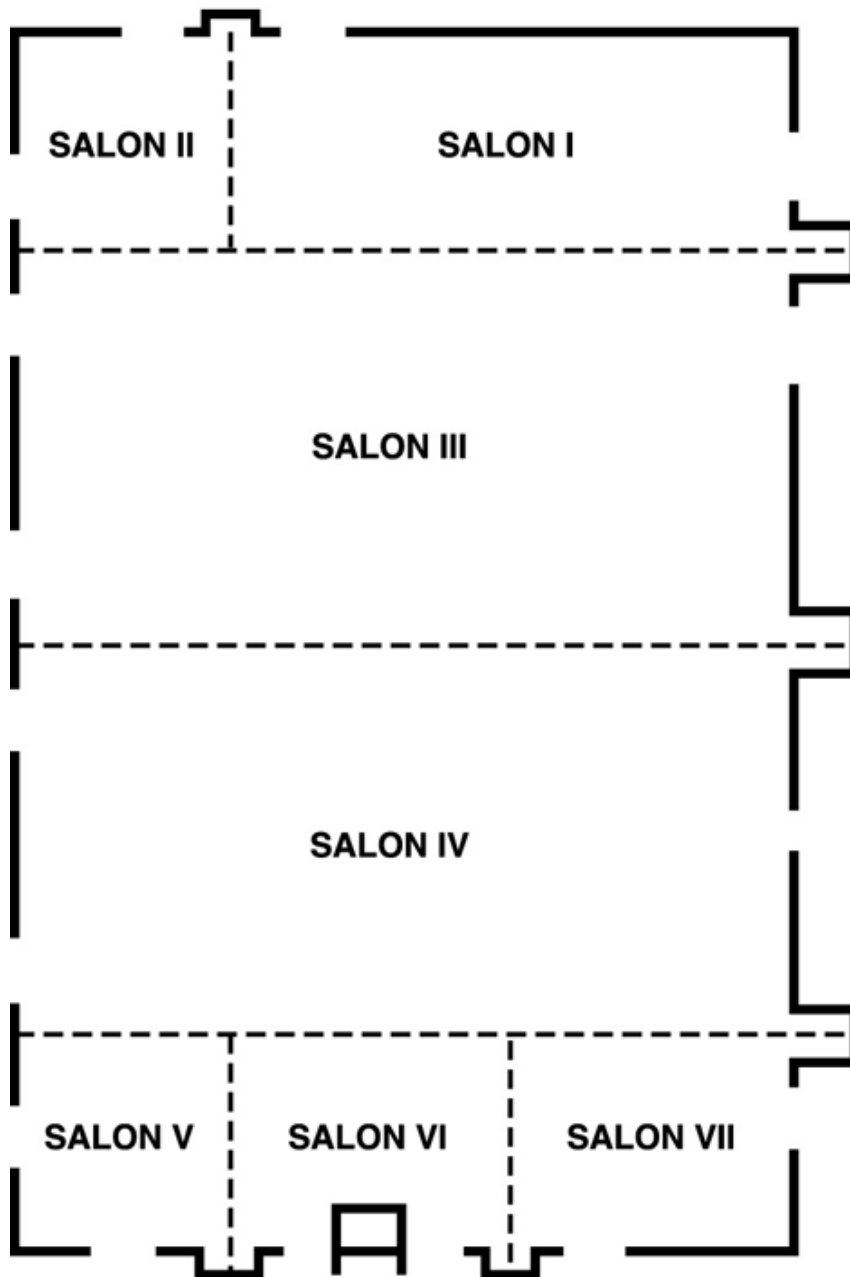
### *Conference Facilities*

The Boston Marriott Cambridge will host the majority of conference events, including the career fair, technical presentations, poster session, and banquets. The hotel is located centrally at the Kendall/MIT "T" subway stop on the red line. The hotel facility floor plan and capacities are shown on the following two pages.



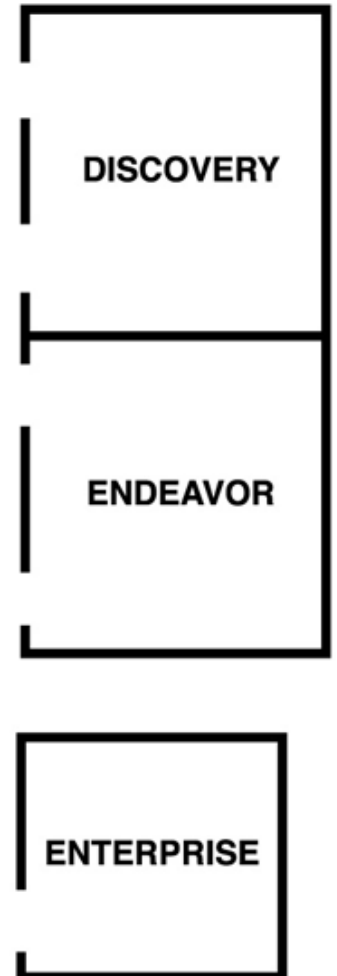
## 2ND FLOOR

### GRAND BALLROOM



## 3RD FLOOR

### MEETING ROOMS



Room	Theater Capacity	Banquet
Grand Ballroom	1000	840
Salon I	110	80
Salon II	40	40
Salon III	300	300
Salon IV	300	300
Salon V	40	40
Salon VI	60	50
Salon VII	40	40
Discovery	60	40
Endeavor	60	40
Enterprise	50	40

**We expect approximately 550 conference attendees.** This is a bit higher than some previous conference estimates due to (1) the large MIT ANS Student Section and (2) the close proximity of the University of Massachusetts at Lowell. We expect a very large portion of ANS students from those two schools to attend. **The room capacities are more than sufficient to accommodate this number of attendees.**

Presentations will be held in the smaller rooms on the 2<sup>nd</sup> and 3<sup>rd</sup> floors, and the rooms on the second floor would be broken down and set up for the banquets. The career fair would be hosted on the second and third floor foyers/pre-function areas which are securable so the exhibitors can leave their displays up overnight.

The food for the conference will be catered by the hotel. We plan to provide breaks in the morning and afternoon; boxed lunches on Friday and Saturday; and banquet style dinners on Friday and Saturday.

It should be noted that the MIT Energy Club has hosted several Energy Conferences at the Marriott, and we have a relationship with the organizers of those conferences. We plan to solicit their guidance during the planning of the conference.



## *Proposed Conference Dates*

We select two weekends (Thursday - Sunday) as potential conference dates:

1<sup>st</sup> Preference: **April 11-14**

2<sup>nd</sup> Preference: **April 4-7**

In order to select these dates, we considered the following factors:

1. Boston weather tends to be gloomy (cold and rainy) in March.
2. Most schools have spring breaks in March.
3. The end of April would be too near final exams for some schools, especially the University of Michigan.
4. MIT will hold its Campus Preview Weekend for newly-admitted freshmen April 18-21. Many Cambridge hotels would be booked solid for this, and many NSE undergraduates would participate in the weekend's festivities. The conference cannot be held that weekend.
5. [Patriots' Day](#), a major Boston-area holiday, is April 15. This will not interfere with the conference, which would end on the 14<sup>th</sup>. In fact, it would probably be advantageous for MIT NSE students, as both the 15<sup>th</sup> and 16<sup>th</sup> will be MIT holidays (no classes). This will allow students running the conference time to rest and catch up on work. **This is the main reason why April 11-14 is our preferred choice.** Also, it may prove to be an attraction for students who wish to stay an extra day or two in Boston. The famed Boston Marathon is held annually on Patriots' Day.
6. Easter falls on March 31, so we will avoid that weekend, which also overlaps with the spring breaks of multiple schools.
7. Neither of these date choices conflicts with any other major nuclear-related conference that an appreciable number of students might want to attend.
8. No full moon will occur during these dates so that lycanthropy will not disrupt the conference.



## Graphical Calendar – Conference Date Selection

Mon	Tue	Wed	Thu	Fri	Sat	Sun
25	26	27	28	Mar 1	2	3
4	5	6	7	8	9	10
Michigan spring break						
11	12	13	14	15	16	17
Texas A&M spring break						
18	19	20	21	22	23	24
25	26	27	28	29	30	31
MIT, Berkeley, Wisconsin spring breaks						

Mon	Tue	Wed	Thu	Fri	Sat	Sun
Apr 1	2	3	4	5	6	7
			#2 CONFERENCE DATES			
8	9	10	11	12	13	14
			#1 CONFERENCE DATES			
15	16	17	18	19	20	21
MIT holiday - no classes			MIT Campus Preview Weekend			
Patriots' Day						
22	23	24	25	26	27	28
			Michigan final exams begin (probably 1			
29	30	May 1	2	3	4	5

## Proposed Conference Schedule


### Graphical Schedule

Thursday		Friday				Saturday			
8:00		8:00				8:00			
9:00		9:00				9:00			
10:00	Workshop	10:00	Presentations	Poster Session	Career Fair	10:00	Presentations	Poster Session	Career Fair
11:00	Workshop	11:00			Facility Tours	11:00			Facility Tours
12:00	Lunch	12:00	Expert Plenaries			12:00	Expert Plenaries		
1:00		1:00	Lunch			1:00	Lunch		
2:00	Workshop	2:00	Presentations	Poster Session	Career Fair	2:00	Presentations	Poster Session	Career Fair
3:00	Facility Tours	3:00			Facility Tours	3:00	Presentations	Poster Session	Career Fair
4:00		4:00				4:00			Facility Tours
5:00	Opening Reception	5:00	Expert Plenaries			5:00	Expert Plenaries		
6:00	Opening Banquet and Speaker	6:00	Cocktail Hour and Entrepreneurial Mixer			6:00			
7:00		7:00	Banquet Dinner and Speakers			7:00	Banquet Dinner Speakers Awards Presentation Closing Remarks		
8:00		8:00				8:00			
9:00	Boston Harbor Cruise	9:00				9:00			
10:00		10:00				10:00			
11:00		11:00	Social			11:00			
12:00		12:00				12:00			

### Logistical Notes


All conference events take place on the grounds of the Cambridge Marriott except:

1. The Boston Harbor Cruise begins in downtown Boston. We will provide a bus service, although we will also encourage students to take the T subway. The cruise begins immediately adjacent to a T station.
2. The Boston Museum of Science social is located 1.1 miles from the Cambridge Marriott. We will provide a bus service, although we will also encourage students to take the T subway or even simply walk. The museum is within a few blocks of two T stations.
3. The “facility tours” take place on MIT’s campus, which is immediately adjacent to the Cambridge Marriott. Everything is within easy walking distance.

THURSDAY	
9:00 AM – 12:00 PM	<b>Workshops</b> Several workshops will be provided throughout the conference. Possible themes include Serpent, MCNPX burnup features, SCALE 6.0, RELAP5/7, Advanced (Fast) Reactors, and Professional Development workshops.
12:00 PM – 1:00 PM	<b>Lunch</b> A casual box lunch will be offered for conference attendants.
1:00 PM – 4:00 PM	<b>Workshops (continued)</b>
1:00 PM – 4:00 PM	<b>Facility Tours</b> Directors of MIT's research facilities will personally conduct tours of their facilities. These facilities include the Materials Science and Technology Laboratory, the MIT Reactor, the Boron Neutron Capture Therapy Laboratory, the Alcator C-Mod Tokamak, the High Heat Flux Facility, the Levitated Dipole Experiment, and the Accelerator Laboratories. Note that MIT ANS will offer several tours each day so students will have the opportunity to visit the facilities more than once.
4:00 PM – 5:30 PM	<b>Opening Reception</b> MIT ANS will host an opening reception with a wine and beer bar in MIT's Walker Memorial Hall.
5:30 PM – 7:00 PM	<b>Opening Banquet and Speaker</b> The opening banquet will be held in the Boston Marriot Cambridge.
7:00 PM – 11:00 PM	<b>Boston Harbor Cruise</b> Students will travel to Boston's Long Wharf where they will board a catamaran yacht and enjoy a sunset/evening cruise around the Boston Harbor. We will provide a bus service to transport students to Boston Harbor, although students may simply take the T subway if they wish.
	

<b>FRIDAY</b>	
8:30 AM – 11:30 AM	<b>Presentations</b> Students will present in their respective technical tracks.
8:30 AM – 11:30 AM	<b>Poster Session</b> Students will present their posters.
8:30 AM – 11:30 AM	<b>Career Fair</b> Exhibitors will display in the main foyers of the hotel.
8:30 AM – 11:30 AM	<b>Facility Tours (continued from Thursday)</b>
11:30 AM – 12:30 PM	<b>Expert Plenaries</b> Experts from various fields will come together in several parallel plenaries to promote discussion on the integrated topics of advanced simulation in the nuclear industry.
12:30 PM – 1:30 PM	<b>Lunch</b> A casual box lunch will be offered for conference attendants.
1:30 PM – 4:30 PM	<b>Presentations</b> Students will present in their respective technical tracks.
1:30 PM – 4:30 PM	<b>Poster Session</b> Students will present their posters.
1:30 PM – 4:30 PM	<b>Career Fair</b> Exhibitors will display in the main foyers of the hotel.
1:30 PM – 4:30 PM	<b>Facility Tours (continued from Thursday)</b>
4:30 PM – 5:30 PM	<b>Expert Plenaries (continued from earlier in the day)</b>
5:30 PM – 7:00 PM	<b>Cocktail Hour and Entrepreneurial Mixer</b> MIT ANS will host a mixer with MIT's Techlink and Energy Club with a focus on exposing nuclear engineers to the entrepreneurial community. Nuclear engineering students don't often have this opportunity, but MIT ANS will capitalize on MIT's vast resources to catalyze potential nuclear entrepreneurs.
7:00 PM – 9:00 PM	<b>Banquet and Speakers</b> Semi-formal dinner will be served while attendees enjoy presentations from distinguished speakers emphasizing innovation and simulation in the nuclear industry.
9:30 PM – 12:30 AM	<b>Social</b> MIT ANS will host a social in the <a href="#">Boston Museum of Science</a> . This is located 1.1 miles from the Cambridge Marriott. We will provide a bus service, although students will be encouraged to walk or take the T subway. <div data-bbox="727 1493 1227 1866" data-label="Image"> </div>



SATURDAY	
9:00 AM – 12:00 PM	<b>Presentations</b> Students will present in their respective technical tracks.
9:00 AM – 12:00 PM	<b>Poster Session</b> Students will present their posters.
9:00 AM – 12:00 PM	<b>Career Fair</b> Exhibitors will display in the main foyers of the hotel.
9:00 AM – 12:00 PM	<b>Facility Tours</b> (continued from Thursday and Friday)
12:00 PM – 1:00 PM	<b>Expert Plenaries</b> Experts from various fields will come together in several parallel plenaries to promote discussion on the integrated topics of advanced simulation in the nuclear industry.
1:00 PM – 2:00 PM	<b>Lunch</b> A casual box lunch will be offered for conference attendants.
2:00 PM – 5:00 PM	<b>Presentations</b> Students will present in their respective technical tracks.
2:00 PM – 5:00 PM	<b>Career Fair</b> Exhibitors will display in the main foyers of the hotel.
2:00 PM – 5:00 PM	<b>Facility Tours</b> (continued from Thursday and Friday)
5:00 PM – 6:00 PM	<b>Expert Plenaries (continued from Friday)</b>
6:30 PM – 9:00 PM	<b>Closing Banquet and Speakers</b> Semi-formal dinner will be served followed by award announcements.
After 9:00 PM	<b>Free Mingling</b> Students are free to mingle around the vibrant Kendall Square area of Cambridge. Numerous restaurants and bars are located within a few blocks of the Cambridge Marriott. Also, downtown Boston is just a short T subway ride away! <div data-bbox="583 1262 1300 1787">  <p><i>Kendall Square</i></p> </div>

## *Speaker Recruitment*

MIT NSE/ANS has a proven track-record of attracting excellent speakers. Within the past eighteen months, the following people have spoken at MIT NSE/ANS events:

### **John Holdren**

Assistant to the President for Science and Technology  
Director of the White House Office of Science and Technology Policy  
Co-Chair of the President's Council of Advisors on Science and Technology

### **Joe Colvin**

ANS President (former)  
President Emeritus for the Nuclear Energy Institute

### **Jack Tuohy**

Executive Director of Hitachi Nuclear  
ANS Executive Director (former)

### **Akira Omoto**

Atomic Energy Commissioner of Japan

Furthermore, MIT has a long-standing history of attracting prominent speakers. Well-known individuals who have spoken at MIT in the past two years include Barack Obama, Bill Gates, Steven Chu, and Mark Zuckerberg. Although we are certainly not pretentious enough to expect such people to speak at our conference, we wish to emphasize MIT's speaker recruitment power.

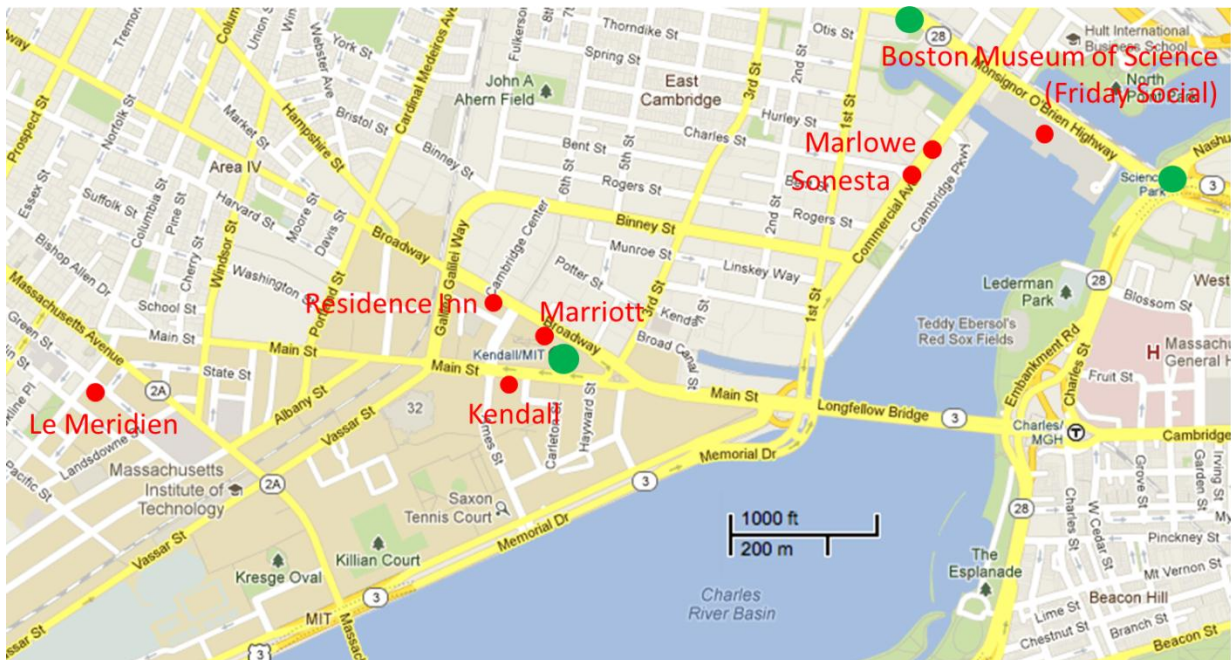
If awarded the conference, we will begin earnestly recruiting speakers. Although we may not get Barack Obama or Bill Gates, we will certainly not disappoint. We will aim high.

## Accommodations

The table below is a snapshot of the hotel accommodations near MIT that will be available for the conference. There are a multitude of hotels in the Boston area, and MIT ANS believes the area has the capacity to hold a large conference. A map of the first three of those hotels in relation to MIT's campus is provided on the following page.

Number of rooms	Hotel	Group Price
350	Boston Marriott Cambridge	\$159
150	Residence Inn Marriott	\$159
150	Le Meridien Cambridge-MIT	\$199
73	The Kendall Hotel	\$172
400	Royal Sonesta Hotel	\$206
236	Hotel Marlowe	\$179

**Map of Facilities Locations (red) and T subway stops (green)**



### *Contingency Plans*

High attendance will not be a significant problem, as hotels within walking distance (have a total of over 1300 rooms! The Marriott Grand Ballroom accommodates 1000 people.

Low attendance would mean a slightly smaller conference revenue, so we have planned to raise sufficient funds to account for this possibility.

In the **unlikely** event that the Cambridge Marriot suddenly becomes unavailable, the Hyatt Regency Cambridge (about a mile away) also meets all the necessary facility requirements for the conference, although it is less accessible by the T subway and would necessitate enhanced bus transportation. The City of Boston (directly across the Charles River from Cambridge) has a virtually limitless supply of hotels and conference centers. Furthermore, MIT has a few large auditoriums and lecture halls capable of seating all conference attendees. MIT ANS could reserve these facilities if necessary.



## **Travel and Transportation**

The Boston Logan International Airport is the closest airport to MIT. As the largest airport in New England, and with 823 daily domestic flights (April 2010), there are plenty of options for students and professionals traveling from around the country. Furthermore, transport to the conference site and nearby hotels is available for a low cost via the Massachusetts Bay Transportation Authority (MBTA). The subway – or the T – connects the airport and MIT via the silver and red lines. A map is provided below. Since the recommended hotels, MIT, and the conference site are all within easy walking distance of T stops; most transportation is handled by the T. To compensate attendees, MIT ANS will distribute \$12 T passes to each attendee (this value covers three roundtrips and is an initial suggestion that may change).

MIT ANS believes it is important to note that although lodging in the Boston area is significantly more expensive than lodging in other conference locations, the savings afforded by low transportation costs are anticipated to partially offset the elevated lodging costs through student reimbursements.

Buses will be provided for transportation to the Thursday night Boston Harbor cruise and the Friday night social at the Boston Museum of Science. However, both of these venues can also be easily reached via the T subway system, which we expect many students to use.

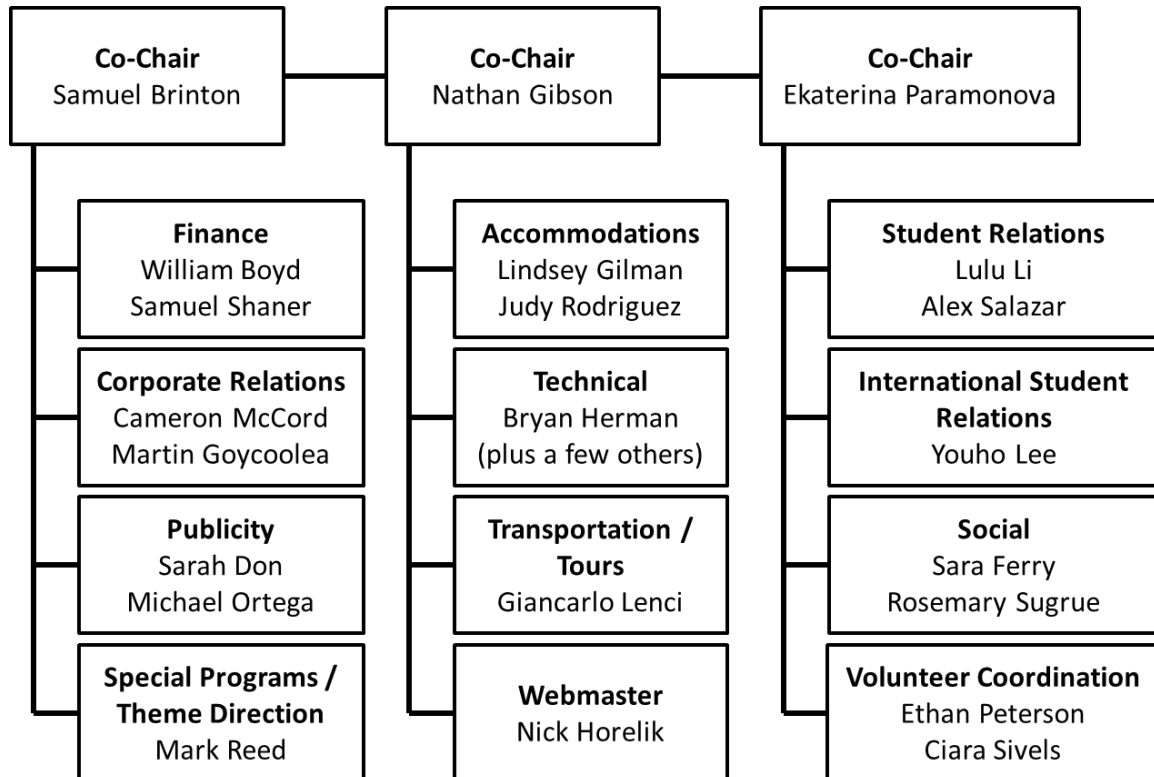


Students from the University of Massachusetts at Lowell will have very small transportation costs, as they can simply take a one-hour commuter rail from Lowell to Boston and then the T subway system to Cambridge. Some of them may even choose to forgo hotel accommodations and commute to the conference. Students from the Rensselaer Polytechnic Institute (RPI) are close enough that a three-hour bus ride will get them to Boston.

For students who will need to fly, we estimate that roundtrip airfare will average approximately \$300 per student. Note that most ANS student sections are located east of the Mississippi.

## Conference Committee

### *Committee Organization*



## *Committee Members and Role Descriptions*

### **General Co-Chairs**

A team of three co-chairs will govern the conference, holding ultimate responsibility for its planning and execution. We recognize that this is a departure from the previous trends of one chair or two co-chairs. However, we believe that this will allow each co-chair to focus on a smaller subset of the conference (while still keeping the big picture in mind), thus resulting in a more detail-oriented management strategy. Each co-chair will be responsible for direct oversight of their individual organizational tracks in addition to working with the other two co-chairs to unify the tracks into a cohesive conference. The itemized responsibilities include:

- a. Provide overall direction
- b. Set up general timeline and ensure deadlines are met
- c. Serve as the primary contact for funding solicitation
- d. Serve as the primary interface between university and all other organizations
- e. Serve as the Masters of Ceremonies for the Awards Banquet

#### Ekaterina Paramonova



Ekaterina “Katia” Paramonova is an MIT undergraduate in the class of 2013. She is pursuing an S.B. degree in Nuclear Science and Engineering, performing research in reactor physics and fission reactor design. She has been far more engaged in ANS activities than any other MIT undergraduate and has served as Undergraduate Chair for two years. She has worked at the MIT Nuclear Reactor Laboratory and as an intern for Westinghouse.

Samuel Brinton

A first-year student with dual master programs in Nuclear Engineering and Technology Policy, Sam is considering future studies in both law and nuclear science. His concentration is on solving the political and technical issues associated with nuclear waste management.

Prior to MIT, Sam studied Mechanical and Nuclear Engineering at Kansas State University as well as Vocal Music Performance and Minor in Chinese Language. His research internships have concentrated on nuclear fuel cycle system dynamics and include time spent at Argonne National Laboratory, Idaho National Laboratory, Dow Chemical Company, the KSU Interdisciplinary Engineering and Applied Science Laboratory, and the KSU Semiconductor Materials and Radiological Technologies Laboratory. He has served as the President of the ANS Chapter of Kansas State University and currently serves as the K-12 Outreach Subcommittee Chair of the Public Information Committee of ANS.



Nathan Gibson

Nathan received B.S. degrees in Physics and Nuclear Engineering from the Rensselaer Polytechnic Institute in 2010, and is now in his second year of study toward a Ph.D. in Nuclear Science and Engineering at MIT. His research lies in the field of computational reactor physics, specifically in resonance self-shielding approaches in deterministic transport theory. He has completed internships at GE Hitachi Nuclear Energy, Knolls Atomic Power Laboratory, and Los Alamos National Laboratory, and he currently holds the Hyman G. Rickover Fellowship in Nuclear Engineering.

Nathan served as president of the RPI student section in the 2008-09 academic year and has held the position of public information officer at MIT since fall 2010. With ANS, he has been involved with several outreach programs, including K-12 classroom presentations and the nuclear science merit badge for Boy Scouts. Outside of the nuclear industry, he enjoys his time spent as a classical violinist and an avid hiker.

### **Special Programs Chair / Theme Director**

The special programs chair and theme director will oversee the development of the conference theme – “public image of the nuclear engineer”. He will personally oversee the “I’m a Nuke” video project and be present to direct the filming. He will also introduce the conference theme at the opening banquet.

Mark Reed



Mark has received his S.B. degree in Physics as well as his S.B. and S.M. degrees in Nuclear Science and Engineering from MIT, and he is currently pursuing a Ph.D. in Nuclear Science and Engineering at MIT. His past research includes magnetic confinement fusion and its application as a neutron source in fission-fusion hybrid systems. His current research focuses on various reactor physics modeling techniques for fast reactors.

He has performed reactor modeling at TerraPower and risk assessment for the Yucca Mountain Nuclear Waste Repository at the U.S. Nuclear Regulatory Commission. In his pre-nuclear life, he was an engineering project management intern for the iPhone 3G at Apple and a research assistant at the Princeton University Department of Astrophysical Sciences. In his spare time, he pursues his affinities for hiking, creative writing, making random iPhone applications, and composing awkward third-person autobiographies.

Passionate about pro-nuclear outreach, Mark was a member of the 2011 Nuclear Engineering Student Delegation. He recently composed [a series of six articles](#) about the history of nuclear technology and why it’s relevant to the millennial generation. He enjoys romanticizing nuclear engineering.

**Finance Chairs**

- a. Solicit tax-deductible contributions
- b. Adjust existing accounts
- c. Plan and conduct student registration
- d. Assist with sponsor solicitation campaign
- e. Track revenues and expenses
- f. Write financial report for ANS HQ

Samuel Shaner

Sam is a first year PhD student in Nuclear Science and Engineering at MIT. He is a member of the Computational Reactor Physics Group with a research focus in deterministic neutron transport methods and data visualization. He is also on the organizing team for the MIT Clean Energy Prize and is currently serving as the Mentoring Lead for the Deployment and Infrastructure division. Before coming to MIT, he earned a B.S. in Chemical Engineering at UC Santa Barbara and performed research in inorganic nanomaterial synthesis. His research was highly applied and involved close collaborations with industrial partners including Corning Inc. and Gas Reaction Technologies. While at UCSB, Sam was an avid triathlete and served as Co-President of the UCSB Triathlon Team during the 2010-11 season. In his free time, Sam enjoys running, hiking, biking, and traveling throughout the western US.

William Boyd

Originally from rural eastern Tennessee, Will earned B.S. degrees in Physics and Computer Science from the Georgia Institute of Technology. He is currently pursuing S.M. and Ph.D. degrees in Nuclear Science and Engineering at MIT. An avid outdoorsman, he recently hiked the Appalachian Trail from Georgia to Maine.

## Social Chairs

- Arrange technical and non-technical tours
- Plan and execute student socials

Sara Ferry and Rosemary Sugrue



Sara Ferry and Rosemary “Rosie” Sugrue are first-year graduate students in MIT NSE. Sara earned dual S.B. degrees in Physics and NSE from MIT in 2011 and is currently pursuing a Ph.D. in NSE at MIT. Rosemary will earn dual S.M. and S.B. degrees in NSE at MIT in June 2012 and will continue on at MIT to pursue a Ph.D. in NSE. They have been known to impersonate a pair of fission products. Their asymmetry is complementary, and they will form a dynamic social chair duo.

**Webmaster**

- a. Designs the website, including registration and abstract submission
- b. Maintains and updates website as needed

Nick Horelik

Nick earned a B.S. in Chemical Engineering in 2009 after 4 years at Tufts University. In the latter 3 years of that time, he was a paid member of a 4-person team making up the Tufts Community Union Elections Commission (ECOM). As the technician, he was solely responsible for building and maintaining a new ECOM website, as well as constructing the online ballots for each candidate during every on campus student government election and referendum. Since Tufts, he recently earned a M.S. in Nuclear Engineering from MIT in February 2012, and he is beginning work on a PhD. During the first two years of his time at MIT, he acquired additional web experience doing part-time freelance work for a local hybrid vehicle startup. Among other things, he carried out web-server procurement, setup, and administration as well as contributed to several server-side and client-side web applications.

**Technical Chairs**

- a. Choose topics for technical sessions and process abstracts
- b. Set up facilities for technical sessions
- c. Approve abstract, paper, and presentation formats
- d. Approve and publish presentation and paper evaluation criteria
- e. Recruit and assign judges
- f. Coordinate poster session
- g. Coordinate technical sessions

Bryan Herman

Bryan received a B.S. degree in Mechanical and Nuclear Engineering from RPI in 2009 and a S.M. degree in Nuclear Science and Engineering from MIT in 2011. He is currently continuing on at MIT in pursuit of a Ph.D. degree in the same field. He served as ANS vice-president at RPI 2008 – 2009 and as ANS co-president at MIT 2010-2011. He was a member of the 2009 Nuclear Engineering Student Delegation.



Assistant Technical Chairs:

Although Bryan Herman will be the lead technical chair, he will have assistance from five other students representing diverse research areas in nuclear technology:

Jessica Hunter (reactor physics)  
 Youho Lee (thermal hydraulics)  
 Alex Mieloszyk (fuel performance)  
 Lindsay O'Brien (materials)  
 Mareena Robinson (detectors)

**Student Relations Chairs**

- a. Oversee communications with participating students
- b. Plan and conduct student registration and check -in

Lulu Li

Lulu received an B.S. degree in Physics from the University of Illinois in 2011 and is currently pursuing S.M. and Ph.D. degrees in Nuclear Science and Engineering at MIT. As an undergraduate, she completed a summer research program at MIT as well as an internship at TerraPower. She is originally from China.

Alex Salazar

Alex is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering.

**International Student Relations Chair**

International students often have unique challenges studying and advancing their careers in the U.S., so we feel that it is necessary to have one person focused solely on international student relations.

Youho Lee

Youho received a bachelor's degree in nuclear engineering from the Korea Advanced Institute of Science and Technology (KAIST) in 2009. He received an S.M. degree in Nuclear Science and Engineering at MIT in 2011 and is currently remaining at MIT to earn a Ph.D. degree in the same field. Enthusiastic about everything, he takes the initiative to foster constructive intercultural dialogue among students.

**Corporate Relations Chairs**

- a. Oversee communications with participating companies and corporations
- b. Plan and conduct professional registration and check in
- c. Plan and manage career fair
- d. Plan and manage interview sessions

Cameron McCord

Cameron is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering. He loves thermal-fluids engineering.

Martin Goycoolea

Martin is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering.

**Accommodations Chairs**

- c. Reserve hotel and banquet space
- d. Reserve session rooms
- e. Plan lunch and dinner menus

Lindsey Gilman

Lindsey is currently a second-year graduate student pursuing a Ph.D. in Nuclear Science and Engineering at MIT. Her research focuses on materials. She has been heavily involved with ANS, serving as treasurer in 2011-2012. Previously, she graduated with a B.S. degree in Chemistry from Valparaiso University.

Judy Rodriguez

Judy is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering.

**Publicity Chair**

- a. Write articles for ANS and Nuclear News
- b. Write press releases and public service announcements
- c. Design brochures and conference transactions
- d. Write announcements for distribution to schools and students
- e. Arrange for ad space in local papers
- f. Conduct mass mailings, posting of flyers, and other publicity campaigns
- g. Oversee awards

Sarah Don

Sarah is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering.

Michael Ortega

Michael is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering.

**Transportation Chair**

- a. Provide MBTA information to attendees
- b. Purchase bulk passes
- c. Organize bus transportation to social events
- d. Direct students toward facility tours

Giancarlo Lenci

Originally from Italy, Giancarlo graduated from Sapienza University of Rome. He is currently pursuing S.M. and Ph.D. degrees in Nuclear Science and Engineering at MIT. He is a true Roman!

## **Volunteer Coordination**

- a. Recruit volunteer staff for the conference
- b. Direct and coordinate volunteers during the conference

### Ethan Peterson

Ethan is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering.

### Ciara Sivels

Ciara is an MIT undergraduate pursuing an S.B. degree in Nuclear Science and Engineering.

## **Faculty Advisors**

### Richard Lester

Head, MIT Department of Nuclear Science and Engineering  
 Director, MIT Industrial Performance Center  
 Japan Steel Industry Professor of Nuclear Science and Engineering

### Benoit Forget

Assistant Professor of Nuclear Science and Engineering  
 MIT ANS Faculty Advisor

## *Decision Making Process*

The three Co-Chairs will have ultimate responsibility for planning and executing the conference. They will make all major decisions, except those concerning the conference theme and the “I’m a Nuke” video project. If there is any disagreement, two Co-Chairs override a dissenting third Co-Chair.

The Special Programs Chair / Theme Director will have decision-making power and creative freedom with respect to the conference theme and the “I’m a Nuke” video project.

If absolutely necessary, a conflict mediation process with faculty advisor Benoit Forget will be initiated.

## *Daily Staffing*

In addition to the twenty-two students who have pledged to serve in official conference organizing roles, we will need an additional **forty to fifty volunteers** to staff the actual conference. This will not be difficult to accomplish, as the MIT NSE department has nearly two hundred enrolled students.

In the extremely unlikely circumstance that we need more volunteers, the MIT Energy Club (with over 3600 student members) will assist us. MIT NSE student Caleb Waugh is Co-President of the MIT Energy Club, and he has pledged his support to this ANS student conference.

**All volunteer staff will report to the Volunteer Coordinators:** Ethan Peterson and Ciara Sivels. These two will also be responsible for recruiting the staff in the months preceding the conference.

Volunteer staff (on any given day) will be subdivided into six categories:

- registration desk staff (3)
- facility tour guides (4)
- workshop staff (2)
- technical session staff (15)
- runners (3)
- poster session staff (3)
- transportation staff (3)



## Finance

### *Banking*

#### **Secure Funds Storage**

All MIT student organizations have access to accounts in a centralized MIT financial system through the MIT Association of Student Activities. This is a secure system with accounts that only a few designated and authorized people can access. Student conference funds will be accumulated and stored in a new account, separate from other MIT ANS funds. There is no upper limit on funds stored in these accounts. MIT controls on the account will not hinder the conference execution in any way. The conference organizers have already initiated discussions with MIT NSE staff regarding this issue, and there are no foreseeable difficulties.

#### **Financial Oversight**

The centralized MIT financial storage system is secure. The finance chairs will have access to the funds, and trusted MIT NSE staff member Peter Brenton will oversee access to the funds.

#### **Tax Exempt Status**

The MIT ANS Student Section is an official student organization at MIT, and it is thus classified under law as a not-for-profit organization. No taxes will be due on any revenues accumulated as part of this conference. All profits earned, if any, will be dedicated to future ANS organization activities.

### *Liability*

Bus services will assume liability while under contract with us.

Catering services will assume liability for incidents related to their services, such as food poisoning.

Alcohol will not be served to anyone under the age of 21. We will ensure this by requiring students to present valid government IDs to obtain wrist bands.

We will coordinate with ANS National and past conference chairs to ascertain and account for all other possible liabilities.

## *Budget*

The proposed 2013 ANS Student Conference is projected to have approximately 420 student attendees. We base this projection on recorded attendance at recent student conferences anticipating modest growth from 2010 to 2013. MIT ANS expects 130 professionals to attend as well. All 550 attendees are accounted for in the proposed budget.

### **Order of Budget Cuts**

In the **unlikely** and unfortunate event that we fall short of fundraising goals, we will cut items from the budget in this order:

1. Mailings – students generally prefer email to paper mail
2. MBTA T subway passes – very cheap and thus not burdensome to students
3. Bus transportation – students can take the T subways to and from social events, which are all located very near T stops
4. T-shirts – not absolutely necessary
5. Boxed lunches – students can buy cheap lunches from the food court adjacent to the Marriott lobby
6. Marketing costs – these can be sparse
7. Postings for conference – not absolutely necessary
8. Awards – not absolutely necessary

## Preliminary Budget

			COSTS			
Facilities and Transportation	Category	Price Per Quantity	Thursday	Friday	Saturday	Cost
	Facilities Rental	\$ 8,500	1	1	1	\$ 25,500
	Breaks	\$ 1,000	-	2	2	\$ 4,000
	Boxed Lunches	\$ 11	-	550	550	\$ 12,100
	Banquet Dinner	\$ 30	550	550	550	\$ 49,500
	MBTA Pass	\$ 12	550			\$ 6,600
	Subtotal					\$ 97,700
Other Costs	Student Socials	\$ 25,000				\$ 25,000
	“I’m a Nuke”	\$ 10,000				\$ 10,000
	Bus Transit to Socials	\$ 5,000	1	1		\$ 10,000
	Awards	\$ 2,500				\$ 2,500
	Publications	\$ 5,000				\$ 5,000
	Marketing Costs	\$ 2,750				\$ 2,750
	T-shirts	\$ 3,500				\$ 3,500
	Postings for Conference	\$ 1,500				\$ 1,500
	Mailings	\$ 1,000				\$ 1,000
	Speaker Gifts	\$ 1,000				\$ 1,000
Subtotal					\$ 62,250	
					Total Cost	\$ 159,950

REVENUE				
Registration and Sponsorship	Category	Price Per	Number Expected	Total
	Student Registration	\$ 25	420	\$ 10,500
	Professional Registration	\$ 100	150	\$ 15,000
	Sponsorship Level 1	\$ 25,000	3	\$ 75,000
	Sponsorship Level 2	\$ 15,000	2	\$ 30,000
	Sponsorship Level 3	\$ 10,000	3	\$ 30,000
	Sponsorship Level 4	\$ 5,000	6	\$ 30,000
	Sponsorship Level 5	\$ 1,000	10	\$ 10,000
				<b>Total Revenue</b>
				<b>\$ 200,500</b>

### Notes on Budget

These revenue goals are on par with those attained by recent conference hosts. Our goal revenue is less than that of UNLV (2012) and less than the revenue actually raised by Michigan (2010).

We expect this conference to be a bit less expensive than other recent conferences due primarily to greatly reduced transportation costs. Nearly all conference events will be within walking distance of the Marriott, and Boston has an excellent T subway system. There will be no “daily shuttles”. However, there will be optional buses to and from the Thursday and Friday socials. We will plan that most students (about 300) will opt to take these buses.

### *Sponsorship and Fundraising*

As proven successful by the previous conference hosts, five levels of sponsorship will be delimited. Each successive level will provide sponsors with additional benefits at the conference including career fair space, advertising space on the website and in the conference program, banners at the conference and an advertisement on the conference t-shirt. Using recent conferences as a guide, the proposed budget includes projected revenues from sponsorships.

## Schedule and Milestones

### April 2012

Officially appoint conference committee  
 Officially reserve conference venues  
 Book block hotel rooms  
 Finalize conference dates

General Co-Chairs  
 Accommodation Chairs  
 Accommodation Chairs  
 General Co-Chairs

### May 2012

Start making conference website  
 Begin fundraising process  
 Finalize social events and reserve venues

Webmaster  
 Finance Chairs  
 Social Chairs

### June 2012

Send delegate to ANS National Conference  
 Invite speakers

General Co-Chairs  
 General Co-Chairs

### August 2012

Invite judges and session chairs

Technical Chairs

### September 2012

Send a progress report to SSC in ANS national.  
 Launch and test website

General Co-Chairs  
 Webmaster

### October 2012

Confirm sponsors and adjust budget

Finance Chairs

### November 2012

Revise budget according to fundraising progress  
 Send delegate to ANS National Conference

Finance Chairs  
 General Co-Chairs

### December 2012

Design t-shirts  
 Release call for papers.

Student Relations Chairs  
 Webmaster, Technical Chair



**January 2013**

Get materials (nametags, etc.) from ANS National  
 Post official conference schedule on website.  
 Obtain T subway passes  
 Finalize fundraising numbers

Student Relations Chairs  
 Webmaster  
 Transportation Chair  
 Finance Chairs

**February 2013**

Assign rooms for sessions  
 Finalize transportation bus details  
 Finalize meal menus

Accommodations Chairs  
 Transportation Chair  
 Accommodations Chairs

**March 2013**

Accept / reject submitted abstracts  
 Fulfill registration process  
 Distribute T subway passes  
 Print conference program  
 Finalize budget based on registration

Technical Chair  
 Student Relations Chairs  
 Student Relations Chairs  
 Publicity Chairs  
 Finance Chairs

**April 2013**

Execute the conference!

Everyone!

**Endorsements**

The remaining pages in this document contain letters of support from faculty members, student groups, and the submitters of last year's proposal from MIT ANS. Student signatures are also included.

Benoit Forget, Assistant Professor and ANS Faculty Advisor  
Department of Nuclear Science and Engineering  
The Massachusetts Institute of Technology

February 24, 2012

To the American Nuclear Society Student Sections Committee:

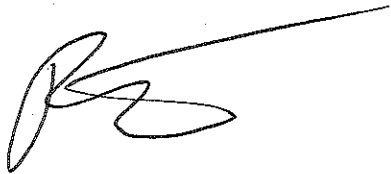
As the Faculty Advisor to the MIT ANS student chapter, I strongly support this bid to host the 2013 ANS National Student Conference.

Many other faculty members strongly support this bid, and the student chapter is more than sufficiently large and active to undertake this endeavor

I served as a technical session judge at the 2011 National Student Conference at Georgia Tech. I look forward to seeing such vibrant student activity here at MIT.

During the past year, the MIT student chapter has contributed to the national nuclear dialogue with the MIT NSE Nuclear Information Hub. Following the March 2011 Fukushima nuclear crisis, this blog provided accurate information to the international community about the crisis as well as nuclear technology in general. This blog received well over one million hits in the week following the earthquake and tsunami. I helped facilitate the blog writing process, and I experienced first-hand the independent and selfless motivation of students here at MIT NSE to promote accurate information about nuclear technology. This student chapter is unquestionably capable of hosting an excellent and engaging conference.

Regards

A handwritten signature in black ink, appearing to be 'B. Forget', with a long horizontal stroke extending to the right.

Benoit Forget  
Assistant Professor, MIT NSE

Richard K. Lester, Professor and Department Head  
Department of Nuclear Science and Engineering  
The Massachusetts Institute of Technology

February 24, 2012

To the American Nuclear Society Student Sections Committee:

I am pleased to strongly support the MIT ANS student chapter in its bid to host the 2013 ANS National Student Conference.

Many other faculty members strongly support this bid, and the student chapter is more than sufficiently large and active to undertake this endeavor.

During the past year, the MIT student chapter has contributed to the national nuclear dialogue with the MIT NSE Nuclear Information Hub. Following the March 2011 Fukushima nuclear crisis, this blog provided accurate information to the international community about the crisis as well as nuclear technology in general. This blog received well over one million hits in the week following the earthquake and tsunami.

Recently, MIT NSE established its new forward-looking theme of "science, systems, society". As nuclear engineers, we have not only engineering challenges, but also a unique challenge and responsibility to engage society. The MIT chapter of ANS has already risen to that challenge with the MIT NSE Nuclear Information Hub, and it is more than ready to rise to that challenge by hosting the 2013 ANS National Student Conference.

Regards

A handwritten signature in black ink, appearing to read "Richard K. Lester", with a long horizontal line extending from the end of the signature.

Richard K. Lester  
Professor and Head, MIT NSE

# mitenergyclub

March 3, 2012

To the American Nuclear Society Student Sections Committee:

As a fellow nuclear engineering graduate student and leader of the entirely student-led energy community at MIT, I am pleased to offer the strong support of the MIT Energy Club to the MIT ANS student chapter's bid to host the 2013 ANS National Student Conference.

Students of the MIT Energy Club seek to bring together the energy communities in science, engineering, economics, business and policy for fact-based analysis and education surrounding the challenges we face in energy. We are excited for the focus on the importance of nuclear energy that hosting the 2013 ANS National Student Conference will bring to our community.

On no other campus will you find students as excited, passionate, and fully engaged in solving our energy challenges. With over 3600 members, the MIT Energy Club is the largest and most active collegiate energy club in the country. To provide some perspective, this year alone the club hosted an energy technology showcase with over 1300 attendees, an energy finance forum with over 400 attendees, an address by U.S. Secretary of Energy Dr. Steven Chu with over 700 attendees, and on March 16-17 will host our annual MIT Energy Conference with over 50 speakers and ~1000 attending. In addition, we recently secured over \$200,000 in funding for a student-led clean energy entrepreneurial competition which will be held in May.

In support of the MIT ANS bid we offer all the resources and experience we have gained in organizing large scale student-led professional events at MIT whether that be with logistics, sponsorship, marketing, or soliciting high profile speakers. More importantly, we look forward to sharing the excitement and enthusiasm we have for energy with all the students attending the 2013 ANS Student Conference. We look forward to welcoming you to MIT!

Regards,



Caleb Waugh  
Co-President, MIT Energy Club  
PhD Candidate, MIT Nuclear Science and Engineering  
MSc Candidate, MIT Technology and Policy Program

March 9, 2012

Student Sections Committee  
ANS Education and Training Division

To the ANS Student Sections Committee:

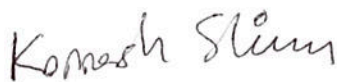
We are pleased to strongly support the MIT ANS student chapter in its bid to host the 2013 ANS National Student Conference.

The MIT NSE faculty supports this bid, and our student chapter is sufficiently large and active to pursue this endeavor.

During the past year, the MIT student chapter has contributed to the national nuclear dialogue with the MIT NSE Nuclear Information Hub. Following the March 2011 Fukushima nuclear crisis, this blog provided accurate information to the international community about the crisis as well as nuclear technology in general. This blog received well over one million hits in the week following the earthquake and tsunami. This clearly demonstrates that the MIT chapter of ANS is more than ready for the challenge and honor of hosting the 2013 ANS National Student Conference.

We have confidence in the students who have assembled this proposal and who have pledged to organize and execute the conference next spring.

Regards



Koroush Shirvan  
Ph.D. Candidate  
MIT ANS Student Section Co-President

Regards



Brittany Guyer  
Ph.D. Candidate  
MIT ANS Student Section Co-President

March 9, 2012

Student Sections Committee  
ANS Education and Training Division

Dear ANS Student Sections Committee,

As MIT ANS Past-President, former proposal co-author, and former conference chair-designee, I enthusiastically endorse Sam Brinton, Nate Gibson, and Katia Paramonova as co-chairs for the 2013 ANS Student Conference.

Sam, Nate, and Katia have demonstrated their capacity to organize, execute, and lead an endeavor as large as hosting a student conference. Each has attended a conference dating back to as early as the 2007 ANS Student Conference, and together they have 14 years of active experience participating in ANS at a local and national level. The three chair format differs from previous years, and this combination will lead to a more effective executive management team by centralizing executive planning activities, decentralizing operational decisions, and capturing the unique skills each member offers in a constructive harmony.

I am excited about the potential these co-chairs offer, and believe they will organize a stimulating conference experience for all.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bryan Herman', followed by a long horizontal line extending to the right.

Bryan Herman  
Ph.D. Candidate, MIT  
MIT ANS President, 2010-2011



## Student Support

I pledge my help and support to the MIT Nuclear Science and Engineering student chapter of ANS in hosting the 2013 ANS Student Conference.

NAME	SIGNATURE
Jessica Hurker	Jessu Hurker
Lindsay O'Brien	Lindsay O'Brien
Sam Shaner	Sam Shaner
SARA FERRY	Sara Ferry
Lulu Li	Li Li
Becky Romatoski	Becky Romatoski
Elliott Fray	Elliott Fray
William Boyd	W. L. D. Boyd
Brad Black	Brad Black
Lizzy Wei	Lizzy Wei
Sarah Laderman	Sarah Laderman
Lauren Merriman	Lauren A. Merriman
ADITI VERMA	Aditi Verma
Derek Sutherland	Derek Sutherland
Rebecca Krentz-Wee	Rebecca Krentz-Wee
Martin Lindsey	Martin Lindsey
Brandon Sorham	Brandon Sorham
Harold Barnard	Harold Barnard

## Student Support

I pledge my help and support to the MIT Nuclear Science and Engineering student chapter of ANS in hosting the 2013 ANS Student Conference.

[illegible]

## Student Support

I pledge my help and support to the MIT Nuclear Science and Engineering student chapter of ANS in hosting the 2013 ANS Student Conference.

[illegible]

## Student Support

I pledge my help and support to the MIT Nuclear Science and Engineering student chapter of ANS in hosting the 2013 ANS Student Conference.

NAME	SIGNATURE
Ekaterina Paramonova	Ekaterina Paramonova
Alex Salazar III	Alex Salazar III
Chad Schabols	Chad Schabols
Martina Robinson	Martina Robinson
Ethan Peterson	Ethan Peterson
Curran O'i	Curran O'i
Judy RODRIGUEZ	Judy Rodriguez
Michael Ortega	Michael Ortega
Ciara Sirels	Ciara Sirels
Sarah Don	Sarah Don
Matthew Chape	Matthew Chape
Lauren Chilton	Lauren Chilton
Alex Mieloszyk	Alex Mieloszyk
John Hanson	John Hanson
Sheng Xu	Sheng Xu
MINH A DINH*	Minh A Dinh
Alexander Rehr	Alexander Rehr
Lindsey Gilman	Lindsey Gilman

## Student Support

I pledge my help and support to the MIT Nuclear Science and Engineering student chapter of ANS in hosting the 2013 ANS Student Conference.

[illegible]