2015 American Nuclear Society National Student Conference Proposal

Presented by:

American Nuclear Society
Texas A&M Student Section

NUCLEAR ENGINEERING
TEXAS A&M UNIVERSITY

March 1, 2014

Student Sections Committee
ANS Education and Training Division

Dear ANS Student Sections Committee,

The Texas A&M University ANS Student chapter is pleased to present our proposal to host the 2015 ANS Student Conference in College Station, Texas. As the largest Department of Nuclear Engineering in the nation, we are excited at the prospect of opening up our university to learn from, and with, some of the brightest minds in the field. With the resources we enjoy, such as distinguished professors, world-class facilities, and a top-rated graduate program, we are confident that this will be a meaningful experience for all participants.

To highlight the growing globalization of the nuclear and health physics industries, we have selected the theme: ***Powering Tomorrow Together***. In recent years, the Texas A&M Department of Nuclear Engineering has seen a growth in international collaboration with our faculty and students. Research projects, study abroad programs, and industry movement have facilitated an expanding scope for nuclear energy and technology that has surpassed the borders of the United States. The resulting innovation and installation at home and abroad is furthering the reach of Texas A&M University and its students. With this international outlook our conference will provide opportunities for attendees to become familiar with the international nuclear community through keynote speakers, workshops, and interaction with international students.

In the preparation of this proposal for the 2015 ANS student conference, the Texas A&M Student Section conference committee has integrated the suggestions from the 2014 conference proposal and called upon our experience from hosting the 2008 conference in order to create this plan. We feel that *Powering Tomorrow Together* is representative of a global vision of nuclear engineering.

Thank you in advance for reviewing our proposal. Our goal for this conference is to bring the world to ANS members. We desire this conference to inspire them to develop a passion for their chosen field through sharing experiences, exchanging ideas, and discussing global research.

Sincerely,

Timothy Crook
Conference Graduate Co-Chair

Sarah Camba
Conference Undergraduate Co-Chair

Taylor Lane
TAMU Student Section President

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THEME & EXECUTIVE SUMMARY

Dean Keith Simonton published a comment piece in the January 2013 edition of *Nature* claiming that the world will never see another genius scientist such as Einstein, Newton, or Darwin. While he bases this on a lack of fundamental sciences left to discover, perhaps a more important point he briefly mentions is the change in the way research is conducted in the modern era. No longer is the forefront of science conducted by isolated geniuses, but rather teams of scientists working with other teams across the world. Consider the International Thermonuclear Experimental Reactor, where hundreds of scientists collaborated on an international project. Similarly, the development and safety of nuclear technology is a topic of global scale. Nuclear incidents, such as Fukushima, showed how any disaster in our field affects the entire international nuclear community. We must work together as a planet to make progress in nuclear technology, protect our environment, and provide safe, clean energy to the world. For this reason, we have chosen to focus the conference on the international community with the theme "**Powering Tomorrow Together**."

From internationally recognized keynote speakers that are industry and research leaders, to featured dinners, sessions, workshops, and special paper tracks, the global element will be present throughout the conference.

Texas A&M has extensive facilities and connections due to our large size and highly-ranked program. Of note is the restart of the AGN training reactor and the 55th anniversary of the Nuclear Science Center, host of our second on-campus reactor. Additionally, students will have the option of touring regional facilities such as Comanche Peak Nuclear Power Plant, South Texas Project Nuclear Power Plant, or M.D. Anderson Cancer Center.

In keeping with the international theme, we will have a number of special panels and technical presentations with global ties. This includes panels and workshops on conducting business and research internationally, as well as a session about various global reactor designs. We will also have a special papers section for global applications open to student participants.

The conference location will be the newly renovated Memorial Student Center (MSC) on Texas A&M's campus. The primary conference hotel will be the Hilton College Station & Conference Center. Airport shuttle will be provided from local and regional airports.

The opening banquet will feature a Texas theme with local BBQ and country dancing. Friday night will feature a dinner with regional Tex-Mex selected from the southern states and Mexico. The closing banquet will represent the international theme, featuring unique cuisine from across the globe.

College Station: Deep in the Heart of Texas

A finalist for America's friendliest small town in 2012, College Station has also been recognized as one of the nation's best places for business, jobs, family and retirement. With a population of about 97,000, the city is a large college town.

College Station is home to Texas A&M University, one of the country's largest public universities and a member of the powerful Southeastern Conference, making college sports a major attraction. Texas A&M's international influence supplies a healthy diversity reflecting the vibrancy, tradition and spirit that make the community special.

College Station is located in the heart of central Texas within a three-hour drive of five of the nation's 20 largest cities: Houston, Austin, Dallas, Fort Worth and San Antonio

Across the street from the university is the student-favorite: the Northgate district. The neighborhood features a combination of businesses, residences, churches, and entertainment. As the heart of College Station entertainment, it is a vibrant part of the city known for its eclectic mix of restaurants, shops, and bars. The district is the home of local favorites such as the Dixie Chicken bar and pool hall and Blackwater Draw brewery.

TEXAS A&M ANS STUDENT SECTION

The Texas A&M Student Section brings a diverse set of speakers from the nuclear industry to inform student members about various occupations they can pursue. The TAMU ANS Student Section also collaborates with the Department of Nuclear Engineering to improve the opportunities not only for TAMU ANS members, but all Nuclear Engineering and Radiological Health Engineering students. In addition, it provides a social network for members to meet other students within the department and in the community. The student section also works with the local College Station public schools and organizations to provide outreach to younger individuals. These goals are established through the following events:

- Corporate Meetings/Presentations
- Freshman Engineering Welcome
- Football Tailgate
- Chili Cook-off Social
- Intramural Teams
- Big Event Community Service
- Laboratory Night
- Nuclear Power Plant Tours
- Sandia National Lab / WIPP Tour
- Boy Scout Merit Badge Workshop

Conference Participation and Involvement

Aside from hosting the 2008 ANS student conference, the section has shown strong participation at previous student and national ANS conferences. The conference committee built upon observations from these conferences in planning for this proposal.

2013 MIT Conference

2012 UNLV Conference

2011 Georgia Tech Conference

TEXAS A&M DEPARTMENT OF NUCLEAR ENGINEERING

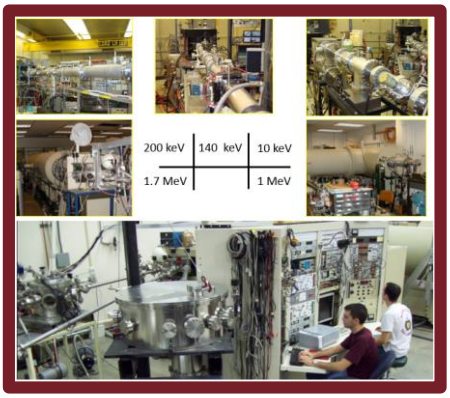
It's Time for Texas A&M!

Texas A&M's Department of Nuclear Engineering is the largest in the US. The department offers two degree programs, nuclear engineering and radiological health engineering, both of which are ABET accredited. Aside from its large enrollment, the Department of Nuclear Engineering is unique in that it is the only campus in the United States with two nuclear reactors. With exceptional facilities, distinguished faculty, and robust research programs, Texas A&M's Department of Nuclear Engineering is gaining increased recognition on both national and international levels.

RESEARCH FACILITIES

The Texas A&M Department of Nuclear Engineering is home to the following lab and research facilities:

Accelerator Laboratories



The Accelerator Laboratory is one of the largest university ion irradiation facilities in the U.S. A total of five accelerators are able to deliver virtually all ions in the periodic table with ion energy from a few hundred eV to a few MeVs. The lab provides unique capabilities to perform accelerator based irradiation studies on various nuclear materials. The Accelerator Laboratory is also very active in multidisciplinary research, including fundamental ion solid interactions, accelerator based ion beam mixing, ion beam assisted film deposition, ion doping, Rutherford backscattering spectrometry, elastic recoil detection analysis, nuclear reaction analysis, and particle induced X-ray emission analysis.

AGN-201M Nuclear Reactor Laboratory

The AGN-201M Nuclear Reactor Laboratory has a 5 W AGN-201M nuclear reactor, which is used to teach fundamentals of nuclear reactor operations and interactions of neutrons with matter. Students are able to conduct experiments on basic reactor physics parameters. In addition, the laboratory has a subcritical assembly for studying the neutron flux profile in a nuclear system and a graphite pile for examining the neutron thermalization process. The laboratory facilities are used primarily to support education programs rather than research.

Fuel Cycle and Materials Laboratory

The Fuel Cycle and Materials Laboratory (FCML) was established to study current issues in the nuclear fuel cycle, including materials and chemical processing, advanced fuels and materials, and waste immobilization. Equipment in FCML includes high temperature furnaces, two inert atmosphere gloved boxes, and a 90-ton hydraulic press. These may be configured for casting, instrumented sintering, cold or hot pressing, and hot extrusion. Further, the laboratory is equipped and has been approved for the handling, testing and characterization of radioactive materials. Currently funded projects from the US Department of Energy include materials processing activities to develop advanced nuclear fuels for burning transuranic radionuclides and radioactive waste forms for isolating fission products.

Interphase Transport Phenomena Laboratory

The Interphase Transport Phenomena Laboratory (ITP) is part of the Department of Nuclear Engineering and works closely with the Spacecraft Engineering Research Center. The ITP has accumulated more than 10,000 parabolas of reduced gravity experience with NASA and 0g Corp. Aircraft. The ITP laboratory has extensive experience in the construction and testing of microgravity fluids experiments including projects for the Air Force Research Laboratory, multiple NASA Field Centers, Foster-Miller Inc., Creare Inc., Boeing, and Thermacore. The laboratory provides a number of facilities to carryout reduced gravity testing and has supported a number of companies and universities in completing their experiments in this unique environment. The laboratory maintains a number of flight qualified experiment packages that can be configured to meet customers' needs. The laboratory utilizes flight proven instrumentation and data acquisition equipment as well as maintains a number of predictive codes for thermal-hydraulic behavior under reduced gravity conditions.

Laser Diagnostics Multiphase Flow Laboratory

The mission of the laboratory is to investigate the complex, multiphase flow of multiscale, multi-physics flow phenomena using non-intrusive global field measurement techniques. The laboratory provides the ability to use state-of-the art particle image velocimetry techniques to study these flows. The laboratory is equipped with fast-pulsed, high-energy lasers and fast high-resolution cameras. Data are analyzed using in-house developed tracking, imaging and pattern recognition routines. The combination of instantaneous measurements of full-fields of velocity and laser-induced temperature measurements enables a multitude of interesting studies of single and multiphase flows.

Microbeam Cell Irradiation Facility

The microbeam cell irradiation facility provides specialized irradiation capabilities needed to implement radiation biology experiments to understand the cellular and molecular mechanisms controlling the risk of longterm health effects related to low doses of ionizing radiation. Radiation sources include 250 keV x ray machine, 80 keV electron microbeam, and 2 MeV tandem electrostatic accelerator with single particle microbeam capability. The microbeam facilities can reproduce most of the range of charged particles that

are found in environmental and industrial settings, and are designed to facilitate study of effects in bystander cells and other biological phenomena that are found at low doses.

Nuclear Heat Transfer Systems Laboratory

The Nuclear Heat Transfer Systems Lab was established with the initial goals of investigating condensation heat transfer mechanisms, experimentally and analytically investigating new reactor designs and safety systems, and advancing the state-of-the-art in reactor safety analysis. Department of Energy projects and Japanese nuclear utilities have been supporting several M.S. and Ph.D. students to perform experimental investigations of passive heat removal systems in advanced light-water reactors and to quantify uncertainties in modeling of Gen IV reactors. These and other projects from the US Nuclear Regulatory Commission and Sandia National Laboratories have enabled the lab to construct thermal hydraulic facilities for testing of advanced safety system concepts, derive theoretical formulations for condensation heat removal in the presence of a noncondensable gas and advance severe accident analysis methodologies. The lab is equipped with a 150-kW steam supply, a high speed camera, extensive thermal hydraulic instrumentation and a state-of-the-art data acquisition system. New efforts focus on developing analysis methods for high-temperature, gas-cooled reactors, improving best estimate analysis with Probabilistic Risk Analysis methodologies and development of detectors for Special Nuclear Materials.

Nuclear Science Center

Currently celebrating its 55th anniversary, this facility has a one-megawatt TRIGA swimming pool reactor that can be pulsed and a variety of other features including experimental laboratories, a large irradiation cell, beam ports, a thermal column and a pneumatic "rabbit" system. One of the best-equipped facilities of its type in the country, the facility is used in our laboratory courses as well as our research program.

Tandem Accelerator Laboratory

A 2 MeV Pelletron accelerator provides charged particle beams for radiation biology and dosimetry studies. Beam lines for single particle microbeam biology studies and for charged particle track structure studies are available. The accelerator provides particles in the energy range typical of proton recoils from neutron irradiation and alpha particles from radioactive sources.

Additional Research Facilities

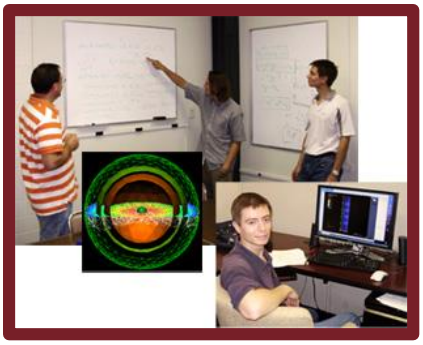
- Systems Radiobiology Laboratory
- Radiation Detection Measurement Laboratory
- Computational Facilities

More information on these facilities can be found at http://engineering.tamu.edu/nuclear/research/facilities/

AFFILIATED CENTERS AND INSTITUTES

Texas A&M is home to the following centers and institutes:

Center for Large-scale Scientific Simulations (CLASS)



Computational simulation of complex physical processes plays a large and growing role in many industries and in our national security.

Simulations help designers and analysts assess the behavior of engineered and natural systems under a variety of conditions. They play a vital role in the design of experiments and in the interpretation of experimental results. They also lend insight into systems that are difficult or impossible to test experimentally.

Cyclotron Institute

In addition to providing a fundamental understanding of nuclear properties, research in nuclear science contributes both insights and techniques to a number of related scientific disciplines, for example, astrophysics, elementary particle physics, atomic/molecular physics, and condensed-matter physics. Nuclear science techniques are also very important in a broad range of analytical, medical, materials science, and energy-producing applications.

Aided by advances in the technology of accelerators, computers, and detector systems, the frontiers of nuclear science continue to expand. The facilities available at the Cyclotron Institute provide a rich variety of opportunities for graduate research.

Institute for National Security Education & Research

INSER develops and implements graduate-level education programs targeted at national security professionals. For example, it currently works with Texas A&M's Bush School of Government and Public Service to provide a Graduate Certificate program in National Security Affairs to selected employees from Lawrence Livermore National Laboratory. INSER also organizes and implements multidisciplinary research and development programs that are relevant to national security. Current programs include those targeted at Nuclear Nonproliferation; Scientific Simulation relevant to national security; and Homeland and International Security.

National Center for Electron Beam Food Research

The National Center for Electron Beam Research (NCEBR) is the leading academic and research organization in the world that is focused on the research, development, and commercialization of Electron Beam (eBeam) and X-ray technologies. Our goal is to exploit these technologies for improving the quality of life of peoples and economies around the world. Our vision is to exploit eBeam and X-ray technologies to clean, heal, feed, and shape this world and beyond.

Nuclear Power Institute (NPI)

The Nuclear Power Institute (NPI) is a unique statewide partnership led by the Texas Engineering Experiment Station and headquartered at Texas A&M University.

NPI brings together four-year universities, two-year technical and community colleges, and public schools with the nuclear power industry, state and local organizations, and state, federal, and international agencies. Together, they can meet the challenge of providing the trained workforce needed to operate new and existing reactors in Texas.

Nuclear Security Science & Policy Institute (NSSPI)

The Nuclear Security Science and Policy Institute (NSSPI) is a multidisciplinary organization at Texas A&M University. It focuses on graduate education, research, and service related to the safeguarding of nuclear materials and the reduction of nuclear threats. NSSPI works in collaboration with US national laboratories, the International Atomic Energy Agency (IAEA), and other partners to address the problems associated with the malicious use of nuclear materials and to study policy issues related to nuclear security.

Nuclear Solutions Institute (NSI)

The mission of the Nuclear Solutions Institute is to foster and support collaborative research and education among groups in the Dwight Look College of Engineering, the George Bush School of Government and Public Service, the College of Science, and the College of Veterinary Medicine.

In carrying out this mission, the Nuclear Solutions Institute will make Texas A&M University the leading university-based center in the country for nuclear studies, including basic nuclear science, energy applications and sustainability, environmental impact determination, nuclear threat reduction, biomedical applications and social impact measurements.

Space Engineering Research Center

The Mission of the Space Engineering Research Center (SERC) is to advance research ideas and concepts to practical application and space flight. It does this by helping to advance researcher concepts to Technology Readiness Levels suitable for adoption by government and industry users, while infusing industry and government needs into the research and education process at one of the top universities in the world.

OTHER TEXAS A&M NUCLEAR STUDENT ORGANIZATIONS

The Texas A&M Department of Nuclear Engineering is home to student chapters of the Health Physics Society, Institute of Nuclear Materials Management, and Women in Nuclear. These organizations, along with ANS, work together on various events that promote the goals of all the groups and benefit the members of all the organizations. These other student organizations support ANS in hosting the 2015 ANS Student Conference and plan to assist when called upon.

Health Physics Society

The Texas A&M Student Chapter of the Health Physics Society (HPS) promotes student and societal awareness of radiation safety. The mission of HPS is to support its members in academics and the practice of their profession; to promote excellence in the science and practice of radiation safety. HPS focuses on hosting speakers from private industry and government. HPS believes the most beneficial support to the students comes from the hosted professional's experiences and knowledge. This student chapter is affiliated with the established HPS South Texas Chapter.

Institute of Nuclear Materials Management

The Institute of Nuclear Materials Management (INMM) is the premier scientific and educational organization committed to advancing quality nuclear management practices worldwide. INMM has promoted research and development in new concepts, approaches, techniques and equipment in the fields of nuclear security and materials management. The Texas A&M Student Chapter works to promote the mission of the INMM by coordinating student collaborative activities, hosting guest speakers, and networking both externally and internally to the University. With chapters across the globe, the INMM community offers students a large source of networking possibilities. The chapter investigates any opportunity to collaborate with professionals in the nuclear security and nuclear materials management community who are also working towards the goal of making the world a safer place.

Women in Nuclear

The Texas A&M chapter of Women in Nuclear (WIN) is one of few collegiate WIN chapters in the United States. As an organization, WIN focuses on fostering an environment in nuclear energy and nuclear technologies fields where women and men are able to succeed together. WIN provides a network through which the women in these fields can further their professional development; this is done by hosting industry members for meetings and going to visit industry facilities for tours. This group also focuses on hosting public events, which allows the community to become informed about nuclear energy and nuclear technologies. WIN also participates in numerous public outreach events that focus on the acceptance of the nuclear industry.

CONFERENCE PLAN

PROPOSED DATES

When selecting possible conference dates, the spring break and final exam schedules of active ANS student sections were taken into consideration. Religious holidays, such as Easter, were also taken into account when negating possible dates. The following dates show the preferred conference times:

1. April 9th – 12th (No conflict)
2. April 16th-19th (No conflict)
3. February 26th –March 1st (Conflict with Michigan)

Although conferences in recent years have been during the first weeks of April, having the conference in the middle or toward the end of April is a viable option. This would give students an opportunity to avoid potential school conflicts. The third choice is at the end of February, to avoid potential scheduling conflicts with final exam schedules that would occur in late April.

February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
22	23	24	25	26	27	28
				Proposed Conference Date (3)		

March 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
	Spring Break (Michigan)					
8	9	10	11	12	13	14
	Spring Break (Florida, NC State, SC State, Penn State)					
15	16	17	18	19	20	21
	Spring Break (TAMU, UT, Ohio State, Purdue, Kansas State, Tennessee, Idaho)					
22	23	24	25	26	27	28
	Spring Break (RPI, MIT, Missouri S&T, Oregon State, Berkeley, NMSU)					
29	30	31				

APRIL 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
			Spring Break (Wisconsin)			
5	6	7	8	9	10	11
Easter				Proposed Conference Date (1)		
12	13	14	15	16	17	18
				Proposed Conference Data (2)		

ATTENDANCE

Projected Attendance

The figures for the projected attendance at the 2015 ANS student conference were found by evaluating previous conference attendance. Taking into account the growth rate of conference attendance, the proximity of nuclear departments and industries to Texas A&M, and the ease of travel to College Station, the 2015 ANS student conference is projected to include 500 Students and 150 professionals, resulting in a total of 650 individuals. The conference registration will give preference to students who do not attend Texas A&M or are presenting papers or posters. We are also aiming to fill about 50 of the student spots with international students. The past student conference attendances are tabulated below.

School	Year	Students	Professionals
Texas A&M	2015 (projected)	500	150
Penn State	2014 (projected)	600 (total)	
MIT	2013	536	101
UNLV	2012	400	200
Georgia Tech	2011	425	150
Michigan	2010	482	183
Florida	2009	335	193
Texas A&M	2008	375	175

The estimated attendance exceeds 600 attendees because of the size of Texas A&M Department of Nuclear Engineering and the proximity of College Station to ANS student sections in the University of Texas system. Additionally, other regional universities are involved in nuclear engineering programs through NPI and professors who teach there. This includes Prairie View A&M University, Texas A&M University Kingsville, Texas A&M University Corpus Christi, University of Houston, Tarleton State, University of North Texas, and others.

Texas A&M Attendance

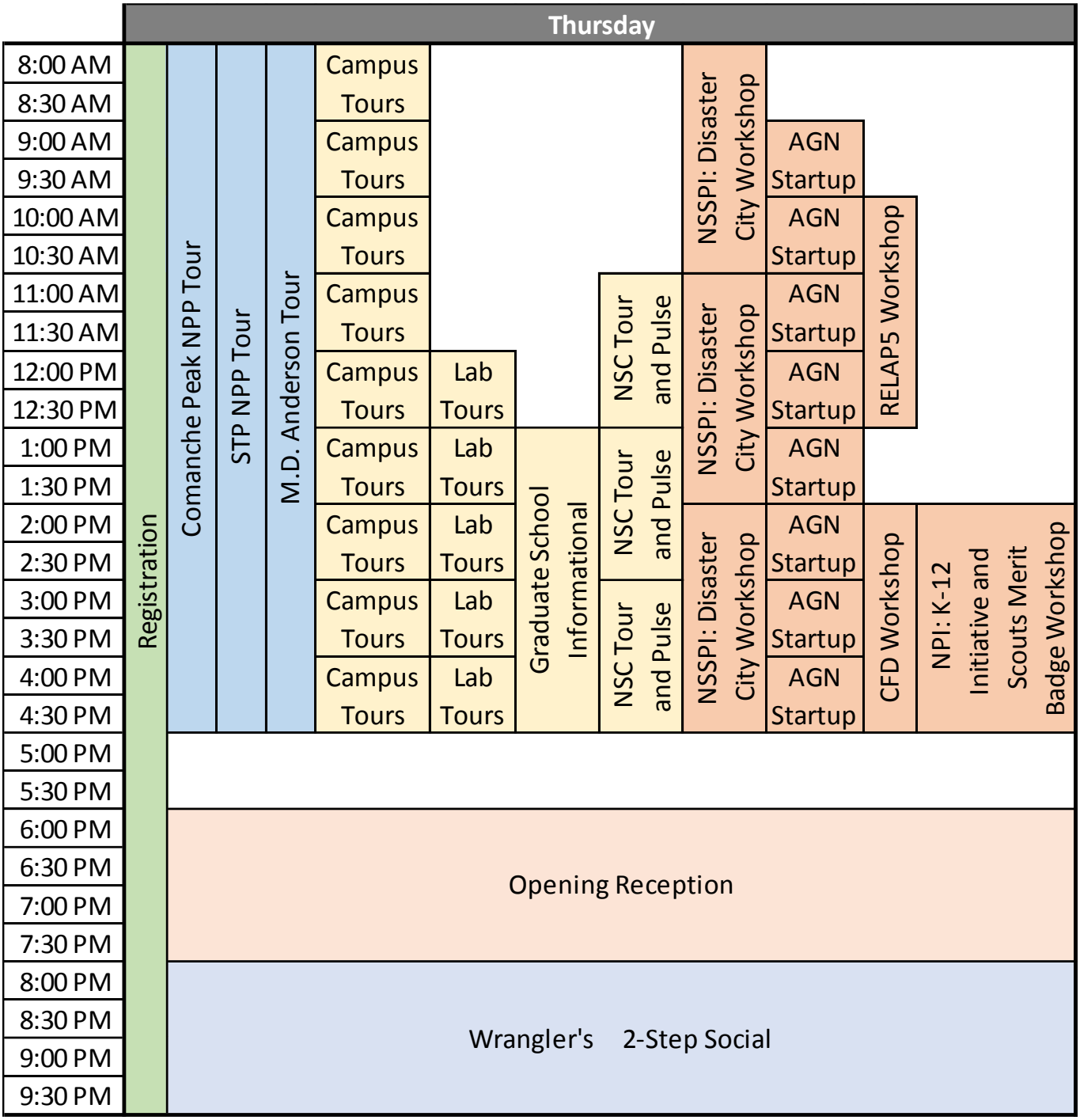
To ensure that the 444 Texas A&M Department of Nuclear Engineering students do not make up a disproportionate fraction of the conference attendance and cause excessive banquet and socials costs, A&M student participation in nontechnical conference events will be capped. Only those A&M students who present research at the conference or are active in the ANS student section will be allowed to register for the banquets and socials. However, all A&M engineering students with an interest in the nuclear field will be encouraged to attend the oral presentations, poster sessions, workshops and career fair. The large size of the Department of Nuclear Engineering will ensure many volunteers to staff conference events.

Contingency Plan

If the conference were to significantly exceed the amount of attendees estimated, the conference committee would make the appropriate budget changes (outlined in the budget section). On the contrary if student attendance were to fall short of expectations, more Texas A&M students would be encouraged to attend the full conference.

PRELIMINARY PROGRAM

Graphical Schedule (Thursday)



Graphical Schedule (Friday/Saturday/Sunday)

	Friday					Saturday				Sunday
8:00 AM	Registration/ Information Booth	Campus Tours	Breakfast			Registration/ Information Booth	Breakfast			Breakfast
8:30 AM										
9:00 AM		Campus Tours	Panels/ Sessions	Career Fair and Interviews	AGN Startup		Sessions	Career Fair and Interviews	NSSPI: Nuclear Security Workshop	AGN Startup	Checkout
9:30 AM										
10:00 AM		Campus Tours			AGN Startup					AGN Startup	
10:30 AM			Break				Break				
11:00 AM		Campus Tours	Panels/ Sessions		AGN Startup		Sessions			AGN Startup	
11:30 AM											
12:00 PM		Campus Tours			AGN Startup					AGN Startup	
12:30 PM			Specialty Lunch				Conference / NG Lunch		SSC Meeting		
1:00 PM		Campus Tours			AGN Startup					AGN Startup	
1:30 PM			Panels/ Sessions				Sessions				
2:00 PM		Campus Tours			AGN Startup					AGN Startup	
2:30 PM									Poster Session		
3:00 PM		Campus Tours	Break		AGN Startup		Break			AGN Startup	
3:30 PM			Panels/ Sessions				Sessions		Break		
4:00 PM		Campus Tours			AGN Startup				Poster Session	AGN Startup	
4:30 PM											
5:00 PM											
5:30 PM											
6:00 PM	Tex-Mex Dinner					Awards Banquet					
6:30 PM											
7:00 PM											
7:30 PM											
8:00 PM											
8:30 PM											
9:00 PM	Downtown Bryan Social										
9:30 PM											

Itinerary

Thursday

8:00-9:30 Registration - Thursday registration will take place in the main lobby of the conference hotel. Attendees will check in and receive welcome bags containing name badges and programs.

8:00-5:00 Campus Tours - Non-technical tours of the Texas A&M University will be offered to attendees. Campus tours are scheduled hourly throughout the day. Texas A&M's campus is home to the Bonfire Memorial, Kyle Field, the George H.W. Bush Presidential Library, Memorial Student Center and other campus landmarks that illustrates the school's unique history.

8:00-5:00 Technical Workshops – Most of the conference workshops will take place on Thursday. The Primary exception is the AGN startup, which is a two-person workshop that last an hour and is being offered for the duration of the entire conference to maximize attendance.

12:00-5:00 Laboratory Tours - Research staff and directors will give tours the Texas A&M Lab Facilities

1:00-5:00 Graduate School Informational - Meetings will be held throughout the day as a recruitment opportunity for attendees interested in the Texas A&M Department of Nuclear Engineering's graduate programs.

6:00-8:00 Opening Reception - Conference attendees will get a taste of the great state of Texas with barbeque, live performances, and industry speakers.

8:00-10:00 Wrangler's Social - Following the opening reception the Aggie Wranglers will teach conference attendees some Texas culture with the Texas two-step, polka, and the jitterbug dances.

Friday

8:00-9:00 Breakfast - Complimentary breakfast will be served at the conference hotel.

8:00-5:00 Registration / Information Booth - Registration will continue in the MSC for late arrivals. There will also be an information booth to answer student questions during the conference.

9:00-5:00 Panels/Technical Sessions - Presenters will have 15 minutes of presentation time and 5 minutes for questions. Each presentation will be evaluated and judged against other presenters in their discipline. Each presentation room will have student workers, judges, a projector, and a podium. Panels will also take place on Friday, while Saturday will exclusively be Technical Sessions.

9:00-5:00 Career Fair and Interviews - Booths will be set up for professionals representing their respective companies. Interview locations will be given to sponsoring companies.

12:30-1:30 Specialty Lunch - First tier sponsors will be provided their own room to give recruiting presentations to students over lunch.

6:00-8:00 Tex-Mex Dinner – Attendees will enjoy a regional dinner with Fajitas.

9:00-10:00 Downtown Bryan Social – Students will be free to walk between boutiques, bars, and sidewalk performances.

Saturday

8:00-9:00	Breakfast - Complimentary breakfast will be served at the conference hotel.
8:00-5:00	Registration / Information Booth
9:00-5:00	Technical Sessions
9:00-5:00	Career Fair and Interviews
12:30-2:00	SSC Meeting - The Student Sections Committee will meet over lunch.
12:30-1:30	Conference Lunch / Optional Northgate Lunch - Attendees will be given meal tickets that can be redeemed at many dining locations on Northgate.
6:00-10:00	Awards Banquet - The award ceremony will take place at the MSC and feature unique dishes from global cuisine. The ceremony will feature keynote speakers from the nuclear industry.

Sunday

8:00-9:00	Breakfast - Complimentary breakfast will be served at the conference hotel.
9:00-12:00	Checkout

EVENT SPECIFICS & LOGISTICS

Welcome to Texas Dinner and Social

Attendees will be welcomed to Texas with a southern themed welcome dinner. Every detail of the opening ceremony from the food to entertainment will be Texas through and through. The dinner will be held at the newly renovated MSC Ballroom and will feature catering from Fargo's Barbeque, a local favorite featured in the 50 best BBQ joints. Entertainment will be provided by the Aggie Wranglers, a student-run Texas country dance troupe. Guest Speakers for this event will include top tier sponsors, distinguished alumni, and the department head. Following the opening dinner the Aggie Wranglers will host a social to teach the Texas two-step and polka dances. Shuttle services will be available after the opening dinner for students who do not wish to attend the social.

Friday Night: Tex-Mex Dinner

Friday night, conference attendees will dine in the Memorial Student Center Ballrooms. The theme of the night will be Tex-mex, representing the regions of southern America and Mexico. Following the dinner, a social will be held in historic downtown Bryan. Here students will be free to experience many street music shows and local bars. The conference committee will work with many local businesses to provide discounts to conference attendees. Shuttles will run during the social.

Closing Ceremony

The conference closing awards ceremony will take place at the Memorial Student Center as well. The theme of this dinner will be international, tying together the theme of the conference. The food will come from a variety of authentic venues, and be catered to the MSC. The ceremony will feature keynote speakers from the nuclear industry. Awards will be presented to outstanding technical session presenters, poster presenters and to student sections. Shuttle service will be provided from the hotel to campus.

Technical Sessions

Technical sessions will consist of presentations from both undergraduate and graduate students. The presentations will be given a 15 minute time limit with 5 minutes for questions afterwards. A call for summaries will be released 5 to 6 months before the conference and submissions will be organized based on tracks listed below.

- Accelerator Applications
- Aerospace Nuclear Science and Technology
- Biology and Medicine
- Detection and Measurements
- Education, Training, and Workforce Development
- Environmental Sciences
- Fuel Cycle and Waste Management
- Fusion Energy and Plasmas
- Human Factors, Instrumentation, and Controls
- Isotopes and Radiation
- Mathematics and Computation
- Materials Science and Technology
- Nonproliferation and Nuclear Safeguards
- Nuclear Criticality Safety
- Operations and Power
- Radiation Protection and Shielding
- Robotics and Remote Systems
- Reactor Physics
- Thermal Hydraulics and Fluids
- Special Session: International Applications
- Special Session: Undergraduate and Graduate Research and Outreach Posters

Best papers from each track will be identified during the review process and will be submitted to one of the two best paper tracks; one for undergraduates and one for graduate students. Awards for best undergraduate and graduate papers will be presented at the closing dinner on Saturday. Additionally, awards will be provided for the best presentations for each individual technical tracks.

Panels

Panels will consist of presentations and round table discussions that are important to the nuclear industry and the American Nuclear Society. They will have both students and professionals as panelists to provide insight on each panel.

- International Business Etiquette
- Involvement in ANS National for Students and Young Professionals
- Nuclear Engineering and Radiological Engineering Graduate School Abroad
- Opportunities for Research Abroad
- Diversity in Nuclear Engineering

Workshops

Workshops will be given by Texas A&M University faculty, research staff and industry experts. These workshops will give students an opportunity to learn a variety of subjects such as specific computer codes, outreach opportunities, and nuclear science applications.

Disaster City

Disaster City is a regional urban search and rescue training ground, located in College Station, TX. The entire facility is composed of structural disaster scenarios such as train wrecks, earthquakes ridden structures, and rubble. It is commonly used to train first responders, search and rescue dogs, and firefighters. In this workshop, teams of students will respond to a nuclear disaster in the Disaster City.

During the emergency response training, sealed sources will be hidden in wreckage that imitate residential and industrial settings. Students will be instructed on field measurements of contamination levels and identify the sources that are detected. After the training is completed, the students will compete to find, identify and quantify a hidden source.

Nuclear Security Workshop

The Nuclear Security Science & Policy Institute (NSSPI) of Texas A&M University will conduct a workshop giving instruction on nuclear security science and policy issues. NSSPI representatives will provide instructions on how to design a physical security system and later attendees will design a security system for a nuclear facility. Groups of attendees will be given layouts of nuclear facilities along with a set of equipment to use. They will be asked to develop a full security system for the site, justify choices of the security plan, and determine locations of various protection measures and security sensors.

K-12 Initiative and Scouts Merit Badge Workshop

The Nuclear Power Institute (NPI) and Student Section at Texas A&M University will conduct a workshop to help student sections develop and improve their K-12 outreach and scout merit badge programs. NPI will present programs that provide the tools, academic support and mentoring for high school and middle school students to encourage interest STEM fields. The Student Section will present approaches on how to conduct Nuclear Science Merit Badge programs for Boy and Girl Scouts. The workshop will have a round table discussion for participants to discuss outreach approaches. This workshop will also detail how to reach out to local organizations along with lesson plans to help scouts earn their merit badges.

AGN Reactor Operations Workshop

Workshop attendees will attend a classroom session in which reactor operations staff will explain the reactor design, operating procedures and corresponding nuclear engineering fundamentals of the AGN. After the completing the classroom session, attendees will be able to have one-on-one scheduled sessions at the AGN to perform a reactor startup, power manipulation and reactor shutdown.

RELAP5 Workshop

RELAP5 is a systems code developed at Idaho National Laboratory to analyze the behavior of the core and reactor coolant system for various transients and accidents. RELAP5 experts will present an overview of the code, examples of specific simulations, and basic instruction on how to utilize the code. Attendees will have a chance to run the code and learn tips, tricks, and best practices for using RELAP5.

Computational Fluid Dynamics Workshop

Computational Fluid Dynamics (CFD) is a type of numerical fluid dynamics analysis used to predict gas and liquid flow in high detail. CFD experts will present the basic theory, analysis process, codes, and applications in nuclear engineering. The attendees will have the opportunity to run simple cases and learn tips, tricks, and best practices for using CFD codes.

Career Fair

The career fair will occur on Friday and Saturday in conjunction with technical sessions and workshops. Companies will be assigned booths based on their sponsorship level. Other universities will also be able to set up booths for their graduate programs here. Students will have the opportunity to visit various booths in an exhibit style setting. The career fair will take place in the Memorial Student Center.

Lunches

Friday Specialty Lunch: First tier company sponsors will be provided their own room to give recruiting presentations to interested students over lunch. Lunch will be served buffet style in a common room for students to take their lunches to the company presentation of their choosing. This will connect companies with a focused group of students interested in their company.

SSC Meeting: The Student Sections Committee will meet over lunch in a separate room.

Saturday Offsite Lunch at Northgate Entertainment District: Affordable eateries to satisfy every appetite line the avenues of College Station's historic Northgate District, located a mere three blocks from the conference. Meal tickets will be provided to conference attendees with maximum spending limits based on agreements made with local eateries.

Proposed Guest Speakers

At evening banquets, the conference the conference committee will have faculty members, alumni, and guest speakers from sponsoring companies deliver keynote addresses. The following speakers have been approached or will be asked to speak if Texas A&M is chosen to host the conference:

Dr. W. "Pete" Miller

Dr. W. "Pete" Miller served as the Assistant Secretary of Energy, Office of Nuclear Energy, in the Obama Administration. He was the Associate Director of the Nuclear Security Science and Policy Institute (NSSPI) at Texas A&M University and he continues to serve as a research professor in the Department of Nuclear Engineering. Dr. Miller is retired from the Los Alamos National Laboratory, where he was employed from 1974 to 2001. While at Los Alamos, he served as Associate Laboratory Director for Energy Programs, as well as for Physics and Mathematics. He was Deputy Laboratory Director from 1986-1988. Dr. Miller is a West Point graduate and received his M.S. and Ph.D. from Northwestern University. He began his research career at Los Alamos in the area of Reactor and Transport Theory. He is a member and Fellow of the American Nuclear Society, and is a member of the National Academy of Engineering.

Dr. James Olson

Dr. James Olson received his law degree from the University of Iowa in 1969. He served for over 25 years in the Directorate of Operations of the Central Intelligence Agency, mostly overseas in clandestine operations. In addition to several foreign assignments, he was Chief of Counterintelligence at CIA headquarters in Langley, Virginia. Dr. Olson has been awarded the Intelligence Medal of Merit, the Distinguished Career Intelligence Medal, the Donovan Award, and several Distinguished Service Citations. He is a Senior Lecturer at the Texas A&M University Bush School Government and Public Service, where he teaches courses on intelligence, national security, and international crisis management. He is the recipient of awards from the Bush School and the Association of Former Students for excellence in teaching. Professor Olson is the author of Fair Play: The Moral Dilemmas of Spying, published by Potomac Books in 2006.

Dr. Rita Bowser

Rita Bowser is a Vice President for Westinghouse Electric Company. She is supporting the Americas Region responding to nuclear utility needs in a post-Fukushima environment. She is leading the core team to improve the global nuclear safety culture within Westinghouse. She recently led the development of a post-Fukushima Westinghouse strategy for a key segment of the nuclear fuel cycle. She brings her experiences from the Three Mile Island recovery and Chernobyl accident, as well as over 30 years of nuclear experience to this role. She comes to the Americas role after serving as the Regional Vice President - South Africa for Westinghouse Electric Company. Her responsibilities included managing Westinghouse's business in South Africa, by integrating Westinghouse's global nuclear network through a local delivery model. Prior to her assignment in South Africa, Dr. Bowser served as the Vice President for Strategy for Westinghouse's European Fuel Business and was also the Head of the AGR & VVER Fuel Business in the UK. She previously served as President and CEO of BNFL Fuel Solutions (a Westinghouse/BNFL subsidiary) – a dry cask storage business for used nuclear fuel and nuclear plant decommissioning. Prior to working for Westinghouse, Dr. Bowser worked on commercial nuclear and spent fuel and decommissioning programs across the globe. She also worked for more than a decade at the Rancho Seco Nuclear Plant in radiation protection and radiochemistry. Dr. Bowser received her DBA from the American University of London, an MSME in Heath Physics from the Georgia Institute of Technology, and a BS in Mathematics from Clarion University. She currently serves on the board of the Pittsburgh chapter of the American Nuclear Society, and the Executive board of the Moraine Trails Boy Scout Council. She is a Registered Radiation Protection Technologist, a Certified Industrial Safety Instructor, a Patron of the American Nuclear Society, a member of Women in Nuclear, is a past Secretary of the NC Health Physics Society.

Local Tours

Bonfire Memorial

The Bonfire Memorial embodies many layers of meaning associated with the Aggie Spirit—a deep sense of belonging, a strong spirit of teamwork and leadership and an enduring sense of tradition that unites thousands. The Bonfire Memorial celebrates the tradition, history and spirit of Texas A&M, and the dedication of those involved in the tragic collapse of the 1999 Bonfire. Uniting Aggies past, present and future, the Memorial is comprised of three design elements. The Tradition Plaza marks the entrance to the memorial and reflects on the activities that bring Aggies together. The History Walk portrays the 90 years of Bonfire preceding the 1999 collapse. The granite timeline is comprised of 89 stones arranged in a north-south line and begins with 1909, the first year Bonfire was built on campus. A break in the time line in 1963 signifies the year John F. Kennedy was assassinated and the only year that Bonfire did not burn. The Spirit Ring surrounds the site of the 1999 Bonfire and represents the Aggie Spirit that unites individuals into something greater than themselves. The twelve portals are oriented toward the hometowns of those who perished in the collapse. For Aggies who participated in Bonfire, the meaning and power of the Aggie Spirit is understood. The Bonfire Memorial seeks to share that understanding with respect, remembrance and spirit.

George Bush Presidential Library and Museum

The library is a state-of-the-art facility dedicated to the preservation, research, and exhibition of official records, personal papers, and memorabilia of the George H. W. Bush presidency. The museum has a main gallery space dedicated to "The Life and Times of George Bush" and a changing exhibit gallery, the Ansary Gallery of American History. The first exhibit in the Ansary Gallery documented the life of President and Mrs. Bush since the White House, with memorabilia that included the parachute used in his 1997 jump with the U.S. Army Golden Knights in Arizona.

Other Tours:

Campus Walking Tour: Enjoy a tour through the main campus of Texas A&M led by a member of MSC Student Hospitality

Memorial Student Center Tours: Tour the newly renovated MSC and learn the history behind the building that will serve as home to the conference

Lab Tours: All TAMU Nuclear Lab Facilities will be available for tour, for more information visit http://engineering.tamu.edu/nuclear/research/facilities/

Regional Tours

M.D. Anderson Cancer Center

M.D. Anderson Cancer Center is world renowned for its research-driven treatment and patient care. The center boasts state of the art nuclear medicine facilities equipped with the latest technology for diagnostic imaging. Located in Houston, MD Anderson Cancer Center is a two hour drive from College Station. Many students will arrive Thursday at Houston airports (Bush and Hobby), allowing them convenience of a tour in Houston before they arrive in College Station.

South Texas Project Nuclear Power Plant

The South Texas Project Electric Generating Station is one of the newest and largest nuclear power facilities in the nation. STP's two units produce 2,700 MWs of electricity to two million Texas homes. Each unit has three, rather than the customary two, fully independent emergency core-cooling systems (ECCS) and associated support systems. STP is a three-hour drive from College Station.

Comanche Peak Nuclear Power Plant

Comanche Peak is a two-unit pressurized water reactor with a 2,300 MW operating capacity, and currently has an application filed with the NRC to license two additional PWRs. The facility is a three-hour drive from College Station, and would be an all-day tour. The tour would include the visitor center, control room simulator, spent fuel pool, and plant auxiliary systems. They will also offer a Health-Physics oriented tour.

Regional Tours Logistics

All regional tours will depart from College Station at 8 AM Thursday. Students will arrive back in College Station before the opening dinner.

FACILITIES

Memorial Student Center

The newly renovated Memorial Student Center (MSC) will serve as the location for the Main Conference Program on both Friday and Saturday. Located across the street from Kyle Field and at the heart of the Texas A&M campus, this facility will give attendees a glimpse of the college campus. The 400,000 square foot facility includes the following attributes suitable for the conference:

- State-of-the-art meeting rooms
- Grand ballroom
- Lounges and visual art spaces
- Interior décor promoting A&M's history and traditions

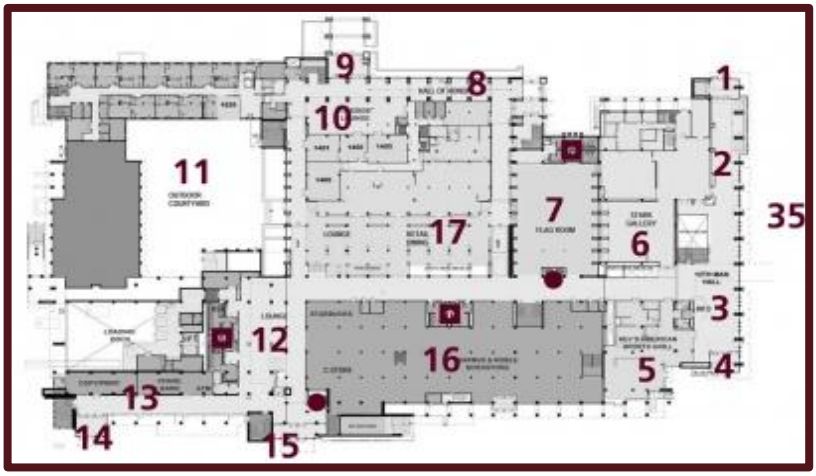
Hilton Hotel Facility

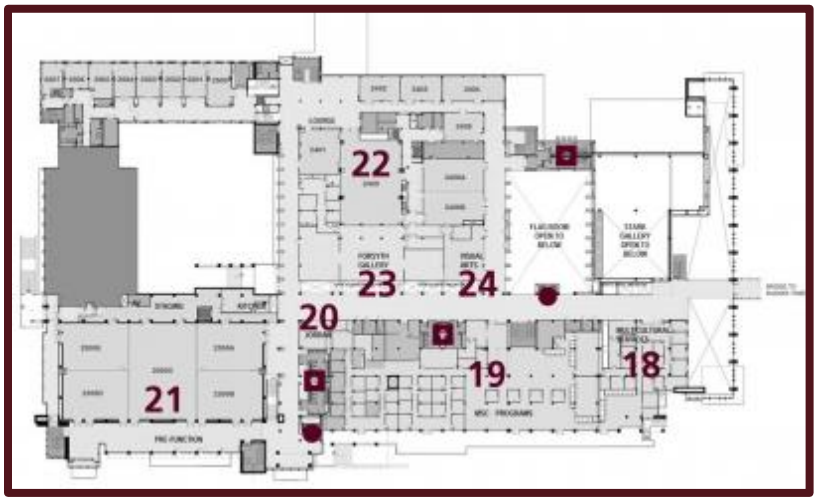
As well as being the location of the conference lodging, the Hilton Conference Center also has the ability to host the main conference program on Friday and Saturday, and will be used as a backup facility to the MSC. The facility includes the following amenities:

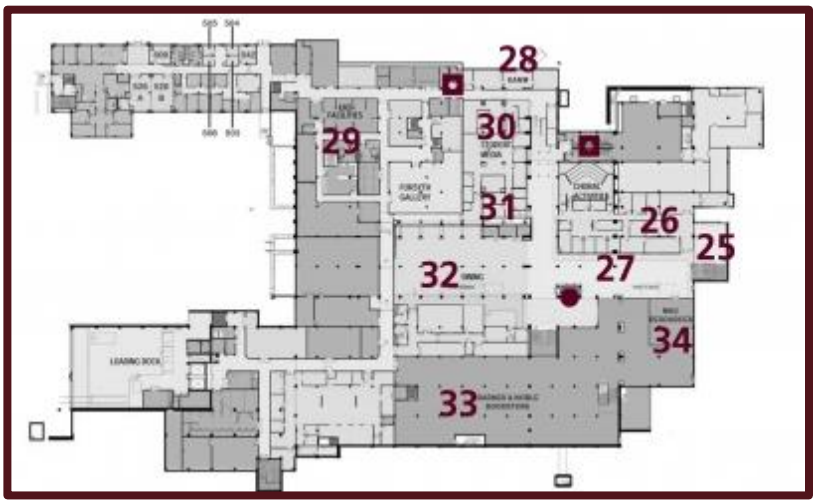
- Adequate accomodations
- Premier conference facilities and amenities

MSC Floor Plan

Below is the floor plan of the MSC. The bolded rooms are the rooms that are intended to be used for the conference program.



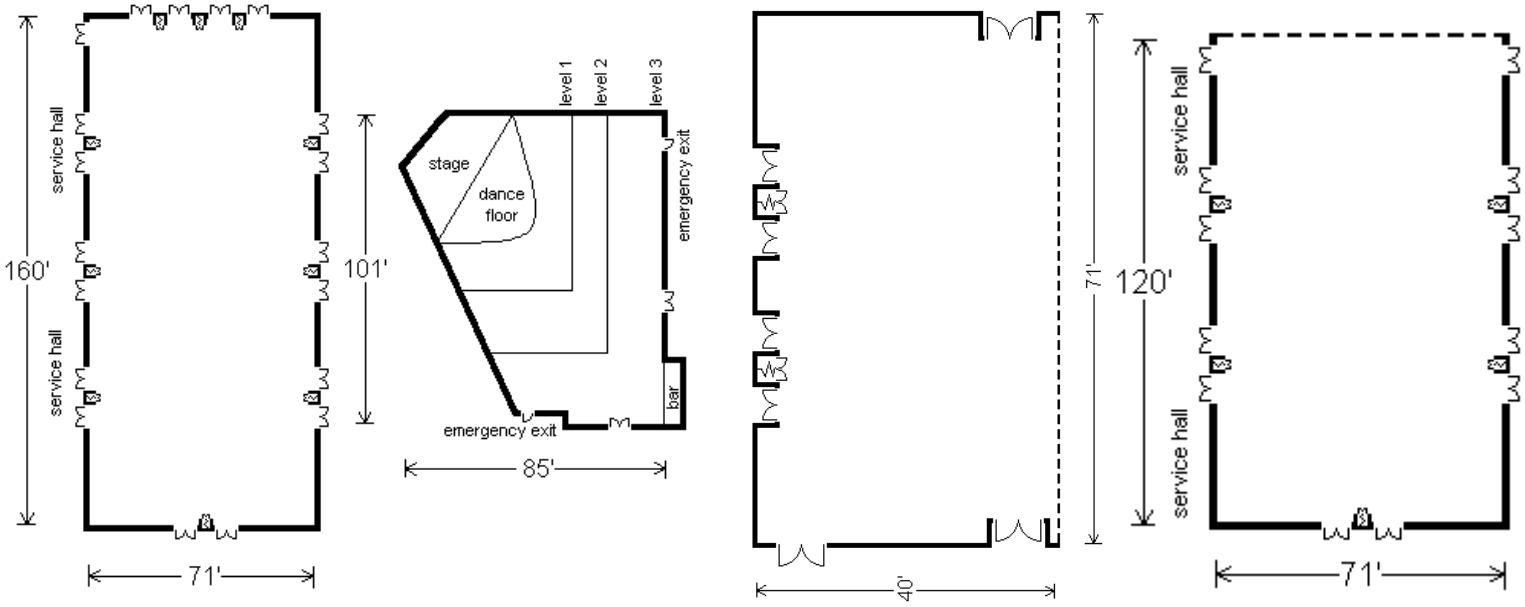




First Level
1. Integrity Entrance
2. Trisha and L.C. "Chaz" Neely '62 12th Man Hall
3. MSC Information Desk
4. Loyalty Entrance
5. Rev's American Sports Grill
6. J. Wayne Stark Galleries
7. Flag Room
8. Hall of Honor
9. Honor Entrance
10. Meeting Rooms x 4
11. Betsy and Pete Forster '63 Courtyard and Garden
12. Student Communications Lounge
13. Retail Hall
14. Leadership Entrance
15. Respect Entrance
16. Barnes & Noble Bookstore
17. Dining
18. Department of Multicultural Services
19. MSC Programs, OPAS, and Director's Office
20. MSC L.T. Jordan Institute for International Awareness
21. Bethancourt Family Grand Ballroom
22. Robert M. Gates Student Ballroom
23. MSC Forsyth Center Galleries
24. James R. Reynolds Student Art Gallery
25. Presidential Endowed Scholarships Display
26. Choral Activities
27. Games Lounge
28. KANM Student Radio Studios
29. University Center Facilities
30. Student Media - The Battalion and the Aggieland
31. Piano Practice Rooms
32. Dining
33. Barnes & Noble Bookstore

Hilton Conference Floor Plan (First Floor)

Below is a floor plan of the second floor of the Hilton Conference Center. This location will be used for the Etiquette Dinner and as a backup for the conference program.



Meeting Rooms (1-4) | Bluebonnet Ballroom | Meeting Rooms (5-7) | Oakwood Ballroom

Room Requirements

The room requirements for the conference facilities are given below. Although the conference committee has every intention of using the MSC for the conference program, additional Hilton Conference Center rooms have been included as a backup. Both the Hotel conference center and the MSC have Wi-Fi capabilities. Attendees will be give temporary usernames and passwords to access university Wi-Fi throughout the conference program.

Room	Max Occupant	Accommodations (possibilities)		
		Projector	Podiums & Mic	Wi-Fi
MSC				
Flag Room	250	✓	✓	✓
Meeting Rooms (x4)	100	✓	✓	✓
Robert M. Gates Student Ballroom	200	✓	✓	✓
Student Ballroom Adjacent Rooms(x4)	200	✓	✓	✓
Bethancourt Family Grand Ballroom	800	✓	✓	✓
Hilton Conference Center				
Bluebonnet Ballroom	1500	✓	✓	✓
Meeting Rooms(x5)	150	✓	✓	✓
Meeting rooms (x3)	300	✓	✓	✓
Oakwood Ballroom	500	✓	✓	✓

Graphical Schedule for Each Room

The schedules below show which rooms programs will be held in throughout the conference.

<table>
<tr><th rowspan="2"></th><th colspan="2">Flag Room</th><th colspan="2">Meeting Room (1)</th><th colspan="2">Meeting Room (2,3,4)</th><th colspan="2">Gates Ballroom</th><th colspan="2">Adjacent Rooms (x4)</th></tr>
<tr><th>Friday</th><th>Saturday</th><th>Friday</th><th>Saturday</th><th>Friday</th><th>Saturday</th><th>Friday</th><th>Saturday</th><th>Friday</th><th>Saturday</th></tr>
<tr><td>9:00 AM</td><td rowspan="12">Career Fair</td><td rowspan="3">Panels</td><td rowspan="3">Sessions</td><td rowspan="3">Sessions</td><td rowspan="3">Sessions</td><td rowspan="5"></td><td rowspan="5"></td><td rowspan="5">Workshops</td><td rowspan="5">Workshops</td></tr>
<tr><td>9:30 AM</td></tr>
<tr><td>10:00 AM</td></tr>
<tr><td>10:30 AM</td><td></td><td></td><td></td><td></td></tr>
<tr><td>11:00 AM</td><td rowspan="3">Panels</td><td rowspan="3">Sessions</td><td rowspan="3">Sessions</td><td rowspan="3">Sessions</td></tr>
<tr><td>11:30 AM</td></tr>
<tr><td>12:00 PM</td></tr>
<tr><td>12:30 PM</td><td></td><td rowspan="2">SSC Meeting</td><td></td><td></td><td colspan="2">Lunch Services</td><td>Specialty Lunch</td><td>Specialty Lunch</td></tr>
<tr><td>1:00 PM</td><td rowspan="3">Panels</td><td rowspan="2">Sessions</td><td rowspan="3">Sessions</td><td rowspan="3">Sessions</td><td rowspan="6"></td><td rowspan="6"></td><td rowspan="6">Workshops</td><td rowspan="6">Poster Session</td></tr>
<tr><td>1:30 PM</td></tr>
<tr><td>2:00 PM</td><td rowspan="2">Sessions</td></tr>
<tr><td>2:30 PM</td></tr>
<tr><td>3:00 PM</td><td></td><td></td><td></td><td></td></tr>
<tr><td>3:30 PM</td><td rowspan="3">Panels</td><td rowspan="3">Sessions</td><td rowspan="3">Sessions</td><td rowspan="3">Sessions</td></tr>
<tr><td>4:00 PM</td></tr>
<tr><td>4:30 PM</td></tr>
</table>

<table>
<tr><th rowspan="2"></th><th colspan="3">BFG Ballroom</th></tr>
<tr><th>Thursday</th><th>Friday</th><th>Saturday</th></tr>
<tr><td>6:00 PM</td><td rowspan="4">Opening Reception and BBQ Dinner</td><td rowspan="4">Tex-Mex Dinner</td><td rowspan="8">Awards Banquet</td></tr>
<tr><td>6:30 PM</td></tr>
<tr><td>7:00 PM</td></tr>
<tr><td>7:30 PM</td></tr>
<tr><td>8:00 PM</td><td rowspan="4">Wrangler's 2-Step Social</td><td rowspan="4"></td></tr>
<tr><td>8:30 PM</td></tr>
<tr><td>9:00 PM</td></tr>
<tr><td>9:30 PM</td></tr>
</table>

HOTELS

Hilton College Station & Conference Center

801 University Drive East
College Station, Texas 77840-2116
Phone: 1-979-693-7500

Ideally located at the intersection of University Drive and Tarrow Boulevard in College Station, TX and less than two miles from Texas A&M University, the Hilton College Station & Conference Center offers convenience and comfort for a visit to central Texas.

All guest rooms, suites and executive rooms at this College Station hotel feature complimentary high-speed internet access, work areas with ergonomic chairs and two phone lines for convenient business use. Several of the 65 suites at the Hilton College Station & Conference Center hotel feature in-room whirlpools. The two Presidential Suites offer striking views over the Brazos Valley. With an impressive 27,000 sq. ft. of meeting space, including a ballroom, conference center and Cabana Patio with an outdoor pool area, this central Texas hotel is perfectly equipped to host any event.

This center was chosen as the desired conference lodging for its economy, capacity, and location. The conference committee has taken care in selecting proposed conference dates that avoid peak spring break travel dates. Complementary conference shuttles will be provided from conference lodging to conference events as needed, as well as from the Easterwood Airport.

- Estimate of $90/per student total
  (For 3 nights, with 4 students per room)
- Estimate of $360/per professional total
  (If they do not share a room)
- 303 guest rooms
  (Estimate of 250 Rooms set aside for the conference)
- Located 2 miles from Texas A&M University campus

Alternative Lodging- Hyatt Place

1100 University Drive East
College Station, TX 77840, USA
Phone: 979 846 9800

Hyatt Place College Station is ideally situated one mile from Texas A&M University and a 10-minute drive from Easterwood Airport.

- Estimate of $105/per student total
(For 3 nights, with 4 students per room)
- Estimate of $420/per professional total
(If they do not share a room)
- 250 guest rooms
(Rooms will be set aside for the conference)

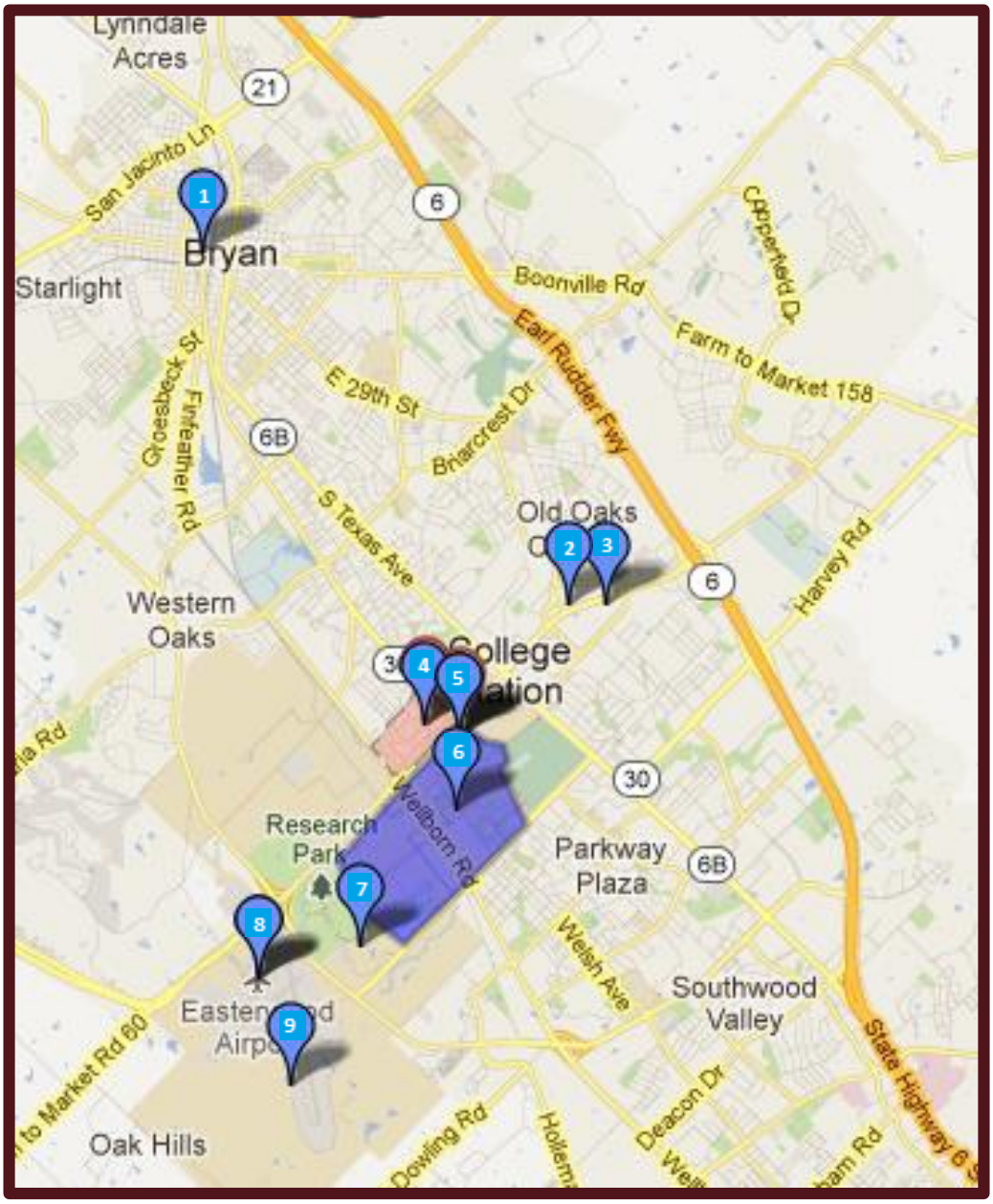
Alternative Lodging- Hawthorn Suites by Wyndham

1010 University Drive East
College Station, Texas 77840-2116
Phone: 979-695-9500

Also on University Drive, this hotel is one mile from Texas A&M University and a 10-minute drive from Easterwood Airport.

Map of Hotels in Relation to other Conference Facilities

Below is a map of the conference hotel and other conference facilities. All three hotels are located close to one another. In the unlikely case that the hotel fills up, attendees can book rooms at the alternate hotels. If the Hilton Hotel and Conference Center is unavailable to serve as the conference hotel, an alternate hotel may be chosen without a large logistical change. The map also shows that all conference locations are at a respective distance from one another. The close proximity reduces shuttle costs, and gives attendees the flexibility to return to the hotel.



#	DESCRIPTION
1	Downtown Bryan
2	Hilton Hotel
3	Alternate Hotels
4	Northgate
5	AGN Reactor and Other Nuclear Labs
6	Texas A&M University
7	George Bush Library
8	Easterwood Airport
9	Nuclear Science Center/Disaster City

TRANSPORTATION

Ground Travel

Driving may be an option for attendees from Texas and surrounding states. The estimated time and cost of the closest universities is tabulated below. The travel cost was approximated for one 20 MPG vehicle traveling at 50MPH with gas costs at $3.50. The cost includes transportation to and from the conference.

School	Transportation Time	Cost
University of New Mexico	12 hr	$105
Kansas State University	10 hr 3 min	$87.50
UT Austin	2 hr 7 min	$26
UT Permian Basin	7 hr 8 min	$68
UT Arlington	2 hr 50 min	$23
UNT	3 h 10 mins	$35
Prairie View A&M	50 min	$12

Ground Transportation from Airport to Hotel

Complimentary transport will be provided by the hotel from the Easterwood Airport in College Station to the conference hotel. The conference committee will set up shuttle services from the Houston and Austin airports on Thursday and Sunday.

Ground Shuttle, a commercial shuttle service is also available from Houston's two major airports to College Station for $27 from Bush Intercontinental Airport and $33 from the Hobby Airport. The service can be found at www.groundshuttle.com . The conference committee will plan with Ground Shuttle to get a group rate and increased shuttle service for conference travel dates.

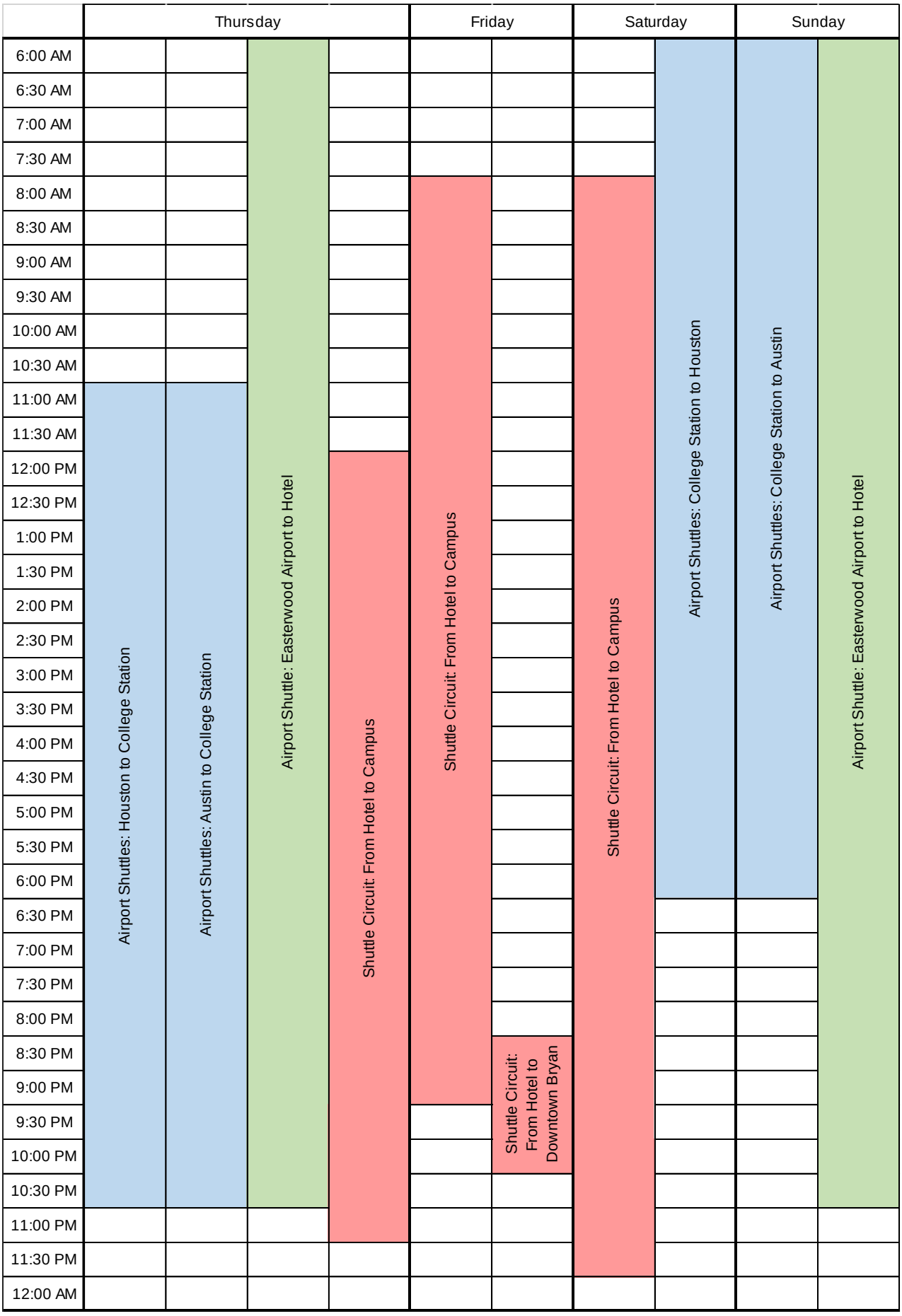
Car rentals are available at all four airports; this may not be a likely choice for students, but professionals may want the option of renting a car.

Ground Transportation from Hotel to Events

Ground transportation from the conference hotel to the events will be organized by the conference committee. Shuttle service will be provided from an hour before to an hour after all off-site events. In the hour leading up and the hour following an off-site event, there will be high capacity and frequent (10 minute) shuttles. During the conference sessions, a reduced capacity and less frequent service will be running so that attendees will be able to return to the hotel at their convenience.

The figure on the next page details the availability of shuttles throughout the conference. The shuttle services will be provided by the conference through an outside vendor. Attendees who miss these shuttles must find their own means of transportation back to the hotel.

Graphic Shuttle Schedule



Air Travel

Convenient and economical flight options are available from multiple locations on all carriers.

1. **Easterwood Airport (CLL),** College Station, TX – 10 minute drive – United and American Airlines
2. **Bush Intercontinental Airport (IAH),** Houston, TX – 90 minute drive – major airlines
3. **Hobby Airport (HOU), Houston,** TX – 120 minute drive – Southwest Airlines
4. **Austin Bergstrom International Airport (AUS),** Austin, TX – 120 minute drive – major airlines

Below are the costs that a student would incur for transportation to Texas A&M.

School	Departure City	Airfare to Easterwood (CCL)	Airfare to Houston (IAH)	Airfare to Austin (AUS)
University of Florida	Orlando , FL	$315	$287	$380
Ohio State	Columbus, OH	$354	$392	$446
University of Cincinnati	Cincinnati, OH	$454	$322	$450
Penn State	University Park, PA	$471	$362	$576
RPI	Albany, NY	$526	$419	$533
MIT	Boston, MA	$400	$300	$374
North Carolina State	Raleigh-Durham, NC	$312	$307	$406
University of Tennessee	Knoxville, TN	$525	$455	$448
South Carolina State	Columbia, SC	$414	$367	$418
Georgia Tech	Atlanta, GA	$325	$291	$304
UT	Austin, TX	$308	-----	------
Kansas State University	Kansas City, MO	$400	$401	$331
University of Wisconsin	Madison	$365	$337	$326
University of Illinois	Chicago	$401	$373	$362
Purdue	Indianapolis	$299	$271	$260
University of Michigan	Detroit	$302	$274	$263
UC Berkley	San Francisco	$321	$293	$282
Oregon State	Portland	$289	$261	$250
Arizona	Tuscan	$240	$212	$201
University of New Mexico	Albuquerque	$252	$224	$213
University of Idaho	Boise	$273	$245	$234
University of Utah	Salt Lake City	$285	$257	$246
UNLV	Las Vegas	$284	$256	$245
Average		$353	$314	$343

BUDGET AND FUNDRAISING

Expenses

The tables below depict the overall budget for events, facilities, and conference materials discussed in the conference plan. Without any change to the conference plan, the total budget stands at $207,876.25.

	Item	Price	per/description	Before	Thurs.	Fri.	Sat.	Sun.	Total
Meals	BBQ Reception Dinner	$20.00	per/person	--	--	650	--	--	$13,000.00
	Breakfast	$7.00	per/person	--	--	650	650	200	$10,500.00
	Specialty Lunch	$10.00	per/person	--	--	650	--	--	$6,500.00
	Northgate Lunch	$15.00	per/person	--	--	--	650	--	$9,750.00
	Tex-Mex Dinner	$20.00	per/person	--	--	650	--	--	$13,000.00
	Awards Dinner	$40.00	per/person	--	--	--	650	--	$26,000.00
	Meals Subtotal								$78,750.00
Socails	Aggie Wranglers	$1,000.00	total	1					$1,000.00
	Downtown Bryan	$15.00	per/person			650			$9,750.00
	Socials Subtotal								$10,750.00
Facilties	MSC Facilities	$0.00	total	--	--	1	1	--	$0.00
	MSC Ballroom	$2,000.00	total	--	1	1	1	--	$6,000.00
	Facilities Subtotal								$6,000.00
Transport	Airport Shuttles	$40.00	per/hour	--	12	--	--	12	$960.00
	Hotel and Campus Shuttle	$65.00	per/hour	--	10	10	10	10	$2,600.00
	Student Travel Reinbursment	$200.00	per/person	400	--	--	--	--	$80,000.00
	Transportation Subtotal								$83,560.00
Administrative Costs	Marketing	$4,000.00	total	1	--	--	--	--	$4,000.00
	Posting During Conference	$2,500.00	total	1	--	--	--	--	$2,500.00
	Mailings	$700.00	total	1	--	--	--	--	$700.00
	Publications	$3.00	per/person	200	--	--	--	--	$600.00
	Participation Packets	$15.00	per/person	650	--	--	--	--	$9,750.00
	Audio/Visual Expenses	$250.00	per/day	--	--	1	1	--	$500.00
	Admistrative Cost Subtotals								$18,050.00
Misc Expenses	Name Tags	$0.05	per/person	650	--	--	--	--	$32.50
	T-Shirts	$5.00	per/person	650	--	--	--	--	$3,250.00
	Student Awards	$75.00	per/person	30	--	--	--	--	$2,250.00
	Speaker Gifts	$100.00	per/person	4	--	--	--	--	$400.00
	Misc. Expenses Subtotal								$5,932.50

Total Expenditures	$203,042.50

Color	Key	Amount
blue	can be changed without interfering the overall feel of the conference	$12,110.00
purple	can be reduced as a last resort	$80,000.00
orange	can be substituted with cheaper events	$39,000.00

The budget reflects a fully registered conference. Expected expenditures will be lower if the conference attendance is below 650. If the conference committee is unable to solicit the required revenue to host the conference, the items highlighted in blue can be cut without altering the overall value of the conference. Reducing airport shuttles means that the conference committee would organize shuttle service, but conference attendees would pay for the shuttle ride themselves. The items highlighted in orange refer to large scale events such as the awards dinner that can be replaced with a more economical event in the case fundraising goals are not met. The order of cost reductions is blue first, followed by green, then orange.

* The shuttle cost is estimated by assuming they will be running 10 hours a day for four days at a cost of $65/hr. The final cost is about a few hundred dollars more than the last Texas A&M Conference and the UNLV conference.

** Texas A&M Students will not be eligible for student travel reimbursements. Reimbursements will be prorated on the basis of flight and gasoline costs.

Revenue

The estimated revenue for the 2015 ANS Student Conference is tabulated below. These figures were generated by evaluating the revenues from previous years. From previous conferences we assume a growth in sponsorships and revenue. The estimated revenue is $232,500.00 (adjusted for compensated professional registration). This exceeds the total expenditures by $29,457.50 In keeping with the international theme, the highest level of sponsorship is called Universal and the next is called global, both symbolizing the international reach of the corporations we aim to seek funds from to support students in nuclear engineering. The next three levels are called National, Regional, and Local. Each Level has specific perks and visibility for the sponsoring organization.

	Source	Amount	Number	Subtotal
Sponsorship	Universal	$30,000.00	1	$30,000.00
	Global	$20,000.00	3	$60,000.00
	National	$10,000.00	3	$30,000.00
	Regional	$5,000.00	4	$20,000.00
	Local	$2,500.00	10	$25,000.00
	Contributor	$1,000.00	15	$15,000.00
	Benefactor	$500.00	20	$10,000.00
Registration	Registration Fee	$35.00	500	$17,500.00
	Professional Registration	$250.00	100	$25,000.00

Revenue Total	$232,500.00

Sponsorship Details

Sponsorship levels for the conference will be broken down into seven tiers. To represent the conference theme of global unity, each tier will represent the reach each company will have in the conference. The tiers will be defined as follows.

Universal:

Any company that donates $30,000 or more will be honored with the exclusive title of universal sponsor. These sponsors will be recognized for their tremendous support of the conference ideals and motivations. In return for their donation, the company will have one of the conference dinners named after them as well as receive an ad on the front cover of the conference pamphlet, showing their tireless support of our ideals. This is, of course, in addition to having their company logo in a prime and highly visible location on the conference t-shirt.

Global:

Companies that pledge at least $20,000 dollars to the advancement of the conference ideals of global unity will be recognized as global sponsors. There will be three spot available for these extremely generous companies and they will be honored by receiving a full page ad in the conference brochure. They will also have the option of naming one of the conference workshops or lunches. If there are not enough sponsors in the tier 1 group, global sponsors may also have the option of naming a joint dinner with another global sponsor.

National:

Companies that contribute at least $10,000 dollars to conference will be honored as national sponsors. In return, companies in this bracket will not only receive all the perks of regional and local, but will also receive a half page ad in the conference brochure. In addition to these incentives, the company will have one of the conference social activities named after them.

Regional:

Companies that donate at least $2500 dollars will be recognized as regional sponsors of the conference. They will not only receive a quarter page ad in the conference pamphlet and their company logo on the conference shirt, but they will receive a prime position in the career fair for their generosity.

Local:

Companies who donate at least $1000 will be recognized as a local sponsor. They will be honored with their company logo on the conference t-shirt, as well as having a small ad in the conference pamphlet.

Contributor:

Companies that donate at least $1,000 dollars will be recognized as supporters of the conference. In return for their generosity, these companies will be recognized in the conference program.

Benefactor:

Companies that donate at least $500 dollars will be honored as benefactors of the conference. As a show of gratitude for their support, these companies will receive a mention in the conference program.

BANKING AND FINANCIAL OVERSIGHT

The conference is expected to attract approximately 650 attendees (500 students and 150 professionals), as accounted for in the budget. The anticipated attendance is in line with previous nationwide attendances, economic efficiency of the conference (especially for students since all normal meals are covered in registration fees), and the large size of Texas A&M's Department of Nuclear Engineering.

With an annual operating budget of approximately $8,000, the Texas A&M ANS section has a system in place for handling conference accounting. All transactions are routed through the Texas A&M Student Organization Finance Center (SOFC). The SOFC additionally provides the section with tax exempt status and independent accounts for the conference. SOFC was used during the 2008 ANS Student Conference, which will give the SOFC reference and precedent for the proposed 2014 student conference.

An alternate banking method is to use ANS headquarters. This will also allow for tax exempt status during the conference. The conference committee is open to using either forms of banking for the conference.

FUNDRAISING

The conference committee plans to solicit sponsors to cover the full cost of the conference. If Texas A&M is selected, potential sponsors would be identified by the following methods:

Past Sponsors: Previous sponsors of ANS Student Conferences will be contacted and asked to support the 2015 conference. The conference committee plans to ask previous conference chairs for specific contacts for sponsoring companies.

Regional Company Sponsors: Texas is home of two nuclear power plant sites, a nuclear waste disposal site, a detector manufacturer, and a nuclear weapons assembly facility. Neighboring New Mexico is home to two national laboratories and an enrichment plant. Arkansas and Louisiana host Entergy nuclear plants. These regional companies will be approached as potential sponsors.

Student Engineers Council (SEC): The Texas A&M Student Engineer's Council has experience in company sponsorship and support as their career fair is the largest run student engineering career fair in the nation. The conference committee plans to meet with the SEC officers to build on the partnerships with nuclear companies that attend to the biannual engineering career fair on campus.

Local Sponsors: The Texas A&M Foundation will be approached for sponsorship. Additionally, many local companies have donated funds to student activities and conferences at the university. Companies such as Freebirds World Burrito, Blue Baker, Copy Corner, Blue Bell Ice Cream, Messina Hof Winery, Hyatt Regency Lost Pines Resort will be contacted for sponsorship or product discounts. Group discounts will be solicited from shuttle providers such as Ground Shuttle and Super Shuttle.

ANS National Conferences: The Texas A&M Department of Nuclear Engineering is able to send conference planners to the winter and summer ANS national conference to market the conference.

One of the new committee positions is specifically tasked with handling issues with professional sponsorship to make sure companies are benefitting in a manner that they expect, further incentivizing their sponsorship.

COST EFFICIENCY

Expected Cost of Attendance

The costs that attending students will incur during the conference include airfare, lodging and registration fees. The conference committee has budgeted a reimbursement of $200 to students who travel to the conference. The net cost per student is $248. These cost do not reflect financial supplements to the students from their home universities or ANS student chapters.

Expenditure	Cost per Student
Average Airfare	$337
Lodging	$90.00
Registration	$35.00
Reimbursement	($200.00)
Net	$262

Reimbursement Procedure

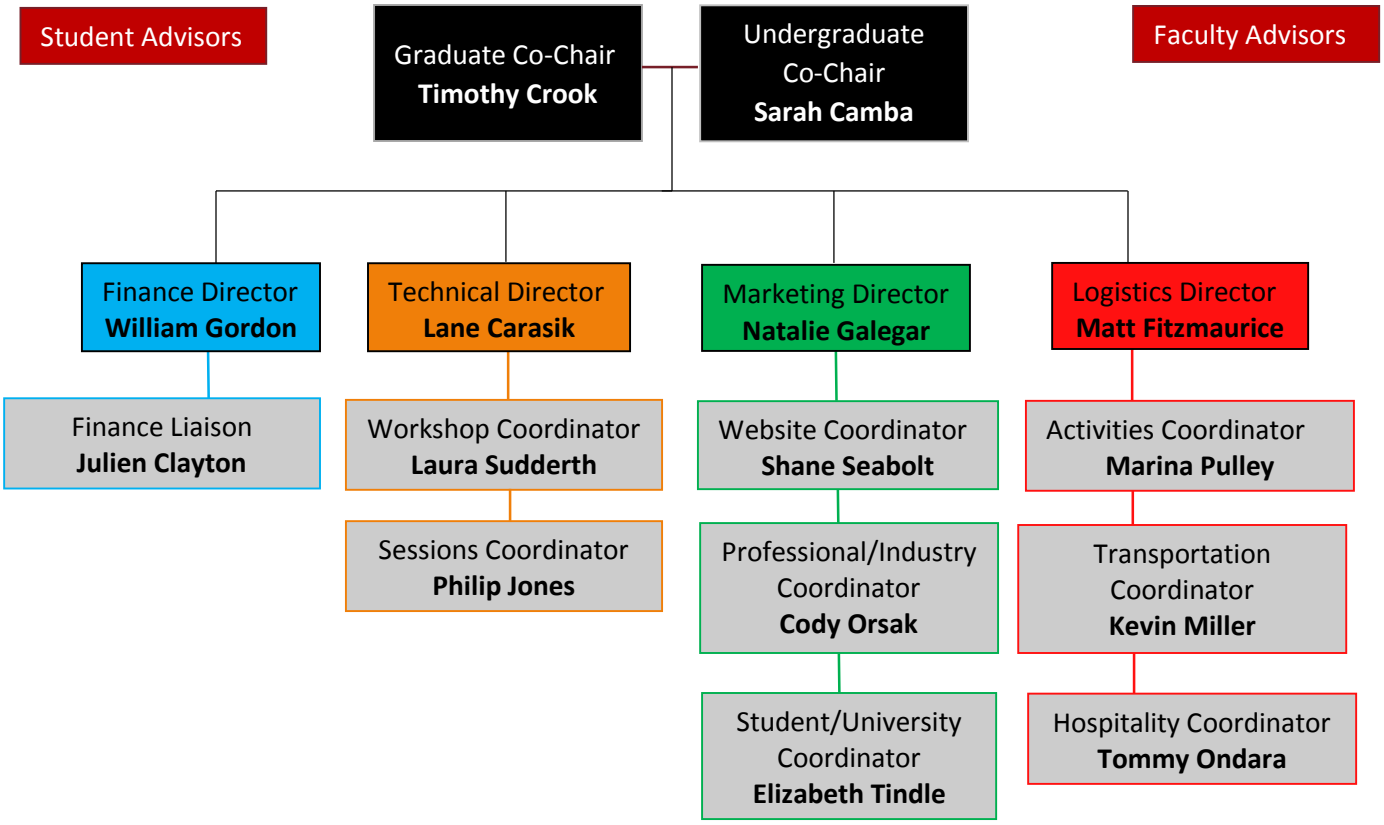
The conference committee would like to lay out the proposed reimbursement procedure for clarity both for attending students and the Student Organization Finance Center.

Reimbursement will be distributed to sections based on number of students attending and average transportation cost. Sections will be asked to submit forms and provide airfare receipts.

One check will be sent to each student section equal to the number of students they sent multiplied by the reimbursement for each of their students. For example: Penn State sends 25 students who are allocated $200 each in reimbursement. The Penn State ANS Section would be sent a single check for $5000 a month or so after the conference (SOFC Takes approximately 3-4 weeks after we give them information to process anything).

COMMITTEE ORGANIZATION

ORGANIZATION CHART



RESPONSIBILITIES

Co-Chairs (1 UG and 1 Grad) - Co-Chairs lead the conference committee. They delegate tasks and decision-making authority to directors to ensure all deadlines and milestones are met. The co-chairs will have the final word on all conference decisions. In addition, the chairs are the primary external contact for the conference.

Finance Director - The finance director is responsible for tracking revenue and expenses to ensure we meet our proposed budget. He will work with the Student Organization Finance Center (SOFC) to ensure funds are raised and spent properly. The finance director will prepare monthly spending reports to the chairs and directors. The Finance Chair will also be involved in the monetary/processing side of sponsorships.

Finance Liaison – The finance liaison will be responsible for assisting the finance chair as well as handling the paperwork associated with SOFC and sponsorship. He will serve as a go-between for the finance director and the coordinators under the marketing director, as well as the activities coordinator.

Technical Director - The technical director is responsible for planning technical sessions, poster sessions, and workshops. He will distribute a call for abstracts, evaluate the abstracts, organize the presentations by topic, and reserve the accommodations and supplies (rooms) needed for the sessions and workshops. The technical chair will also write a judge's evaluation rubric for the technical and poster sessions. The technical director will have a staff including a workshop coordinator and presentation coordinator.

Workshop Coordinator - Organizes workshop trainer, facilities, schedule, cost, supplies and student enrollment.

Sessions Coordinator - Will oversee IT for all sessions and presentations and ensure technical accommodations (projectors, laptops, etc.) are in each room.

Marketing Director - The marketing director will solicit local and national sponsorship at all tiers. She will work with the Department to develop and implement international, national, statewide, and local marketing to potential sponsors. Additionally, the marketing director is responsible for marketing the conference to potential attendees: students across the nation and Texas A&M students. The marketing director will oversee the website coordinator, Professional/Industry coordinator, and the Student/University Coordinator.

Website Coordinator - Primary duties include managing the conference website, online registration, and the technical side of paper submission.

Professional/Industry Coordinator - Soliciting and managing of professional sponsorship from organizations other than the university and ANS national.

Student/University Coordinator - Managing marketing materials related to students (conference t-shirts and conference packet for example).

Logistics Director - The logistics director is in charge of hotel reservations and non-technical events. He oversees the Activities, Transportation, Volunteer, and Hospitality Coordinators.

Activities Coordinator - Plans and executes social events and evening banquets. Also plans breakfasts, lunches and snacks.

Transportation Coordinator - Coordinate local ground transportation between events and the hotel, as well as shuttle bus reservations for attendees arriving by air to the College Station, Houston and Austin airports.

Hospitality Coordinator - Manages volunteers for the conference to ensure all events are properly staffed. Coordinates with the conference hotel and manages student hospitality and registration workers.

Faculty Advisors - The faculty advisors are the two ANS student section faculty advisors, Dr. Ryan McClarren and Dr. Lin Shao and the Department of Nuclear Engineering head, Dr. Yassin Hassan. They may advise conference decisions and monitor planning and execution.

Student Advisors - The student advisors will consist of the ANS student section officers and members of the Department's Student Advisory Council. They provide suggestions and guidance.

COMMITTEE MEMBERS

Co-Chairs

Sarah Camba (Undergraduate Conference Co-Chair)

Sarah is a junior Nuclear Engineering Major from Colleyville, Texas. She is an active member in the TAMU chapters of the Society of Women Engineers, the American Nuclear Society, and Women in Nuclear where she currently serves as President. Sarah is a student worker for the Nuclear Power Institute at Texas focusing on STEM outreach efforts to high schools and training programs partnered with the International Atomic Energy Agency. She currently participates in undergraduate research in collaboration with the Industrial & Systems Engineering department on security evaluations at nuclear material storage sites.

Timothy Crook (Graduate Conference Co-Chair)

Timothy is starting graduate school in Mechanical Engineering at Texas A&M under Dr. Yassin Hassan in the Fall of 2014. He graduated in December of 2013 with a Bachelor's degree in Nuclear Engineering from Texas A&M. He is currently working on RELAP5-3D research related to the Generic Safety Issue 191 posed by the NRC. As an undergraduate, Timothy was a President's Endowed Scholar and a Dean's Honor List student. He has been active in Texas A&M's ANS Student Section, serving as president, system administrator, and service chair. He was also involved in the Student Engineer's Council, serving as Legislation Chair.

Directors

Lane Carasik (Technical Director)

Lane Carasik is a PhD student and Nuclear Energy University Program's Fellow in nuclear engineering at Texas A&M University where he is part of the Nuclear Power Engineering Research group under Dr. Yassin Hassan. He received his BS in nuclear engineering from the University of Tennessee, Knoxville in December 2012. At the University of Tennessee, Knoxville, he conducted nuclear thermal hydraulics research under Dr. Arthur Ruggles. His research interests are in nuclear thermal hydraulics and methods developments for computational fluid dynamics and heat transfer. Lane is an active member of the American Nuclear Society and American Society of Mechanical Engineers. Lane is currently the Vice Chair of the ANS Student Section Committee and serving on the Executive Committee for the Thermal Hydraulics Division. Lane has previously been the Chair of the University of Tennessee, Knoxville ANS Student Section and the student chair for PHYSOR 2012. Lane has had previous internships at Westinghouse Electric Company and Tennessee Valley Authority working on reactor coolant systems.

Matthew Fitzmaurice (Logistics Director)

Matthew Fitzmaurice is a PhD candidate in nuclear engineering. He received his BS in mechanical engineering from Kansas State University, where he was an active ANS member and president of Alpha Nu Sigma. Since moving to Texas A&M he has become involved in the student section of ANS serving as the Social Director. Matthew also serves as the department representative to the Graduate Student Council. He is currently a research assistant with the Department of Nuclear Engineering.

Natalie Galegar (Marketing Director)

Natalie is a Graduate Research Assistant in thermal hydraulics and is pursuing a Master's of Science in Nuclear Engineering. She also received her Bachelor's degree in Nuclear Engineering from Texas A&M. During her studies she served as a research aid at Argonne National Laboratory in the Nuclear Engineering division as well as two summers working in thermal hydraulics research and development at the Westinghouse Electric Company fuel fabrication facility in South Carolina. As an active student member in ANS and Women in Nuclear, Natalie has served as ANS chapter Vice President as well as WIN chapter External Communications Chair.

William Gordon (Finance Director)

William Gordon is a Master's student in Health Physics. He earned his Bachelor's in Radiological Health Engineering from Texas A&M. While an undergraduate, he worked at the Fuel Cycle Material Laboratory and a biosafety level 2 lab at the Nuclear Science Center. He has served in officer positions for Engineers without Borders (Fundraising Director), Texas A&M Amateur Radio Club (President), and Cepheid Variable (Fundraising Director). His research includes boron carbide neutron detector development and computational safety analysis.

Coordinators

Julien Clayton (Finance Liason)

Julien is a senior nuclear engineering major who will be graduating with his BS in nuclear engineering in the spring of 2015. Julien is involved with the Texas A&M chapter of the American Nuclear Society where he serves as the service coordinator. He has also worked as a peer teaching assistant, helping freshman and sophomore engineering students, as well as for the freshman engineering office. In the past, Julien has participated in community service events such as Big Event. He is still deciding if he will be attending graduate school directly after graduation.

Philip Jones

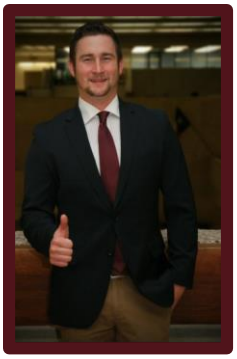
Philip is a Junior Nuclear Engineering major graduating in May 2015. He has been an active ANS member for two years. He spent the summer of 2013 studying at Harbin Engineering University in Harbin China, and was able to see how China is expanding their nuclear power capacity. He also competes for the Texas A&M Cycling Team.

Kevin Miller (Transportation Coordinator)

Kevin is a junior Nuclear Engineering student at Texas A&M University. He currently works as an undergraduate laboratory technician for the Fuel Cycle and Materials Laboratory. He also works for the Freshman Engineering program. Kevin is a member of the Texas A&M Corps of Cadets where he currently serves as Deputy Inspector General.

Tommy Ondara (Hospitality Coordinator)

Tommy is a nuclear engineering student from Texas A&M class of 2015. He is from Amarillo, Texas and is currently residing in College Station. He is currently active in the student section of American Nuclear Society and serving as the outreach coordinator. While attending Texas A&M he has made the Dean's Honor Roll. He has also been in many community services such as Big Event at Texas A&M and been involved with other service organizations such as Kiwanis.



Cody Orsak (Professional/Industry Coordinator)

Cody is a Nuclear Engineering major from Baytown, TX. He transferred into Texas A&M University in fall of 2012. Since then, he has been heavily involved in American Nuclear Society (where he is the current Internal Committee Head), Aggie Transition Camps, and Carpool. Cody loves the outdoors, hunting, fishing, camping, and pretty much any sport. He also LOVES to play golf and actually was a caddie for two and a half years. Cody has worked three semesters in undergraduate research on approaches to prevent Uranium smuggling and now has begun research in Uncertainty Quantification. Cody fully plans on attending grad school once he graduates with his Bachelors in 2015.

Marina Pulley (Activities Coordinator)

Marina is a first year graduate student in the Department of Nuclear Engineering at Texas A&M University. Her focus is in Health Physics, and she is currently researching in nanotechnology, using radiolabeled nanoparticles for cancer treatment and therapy. She completed her undergraduate degree in Aggieland as well, majoring in Radiological Health Engineering. Since her sophomore year, she has been part of the student chapter of ANS, and is excited to serve as the Activities Coordinator for this year's conference.

Shane Seabolt

As a sophomore in the Department of Nuclear Engineering at Texas A&M studying Radiological Health Engineering, Shane has had the pleasure of working with two multidisciplinary research teams on the topics of Nuclear Security and Nuclear Powered Desalination. He has been awarded the honors of Distinguished Student and appointment to the Dean's Honor List. Shane also works as an assistant at the Texas A&M Engineering Experiment Station State Headquarters in College Station, TX.

Laura Sudderth (Workshop Coordinator)

Laura is a Master's student in Nuclear Engineering at Texas A&M University. She received her BS in Nuclear Engineering and BS in Chemistry from Texas A&M. She has participated in internships at GE Nuclear at the fuel manufacturing facility and the Center for Space Nuclear Research at Idaho National Laboratory, resulting in a publication in the Journal of the British Interplanetary Society and presentations at various conferences, including ANS and Nuclear and Emerging Technologies for Space (NETS). Laura performed undergraduate research at Texas A&M University's Cyclotron Institute and the TAMU Fuel Cycle and Materials Laboratory, where she is continuing her work as a graduate research assistant. Since arriving at Texas A&M in 2009, Laura has been an active member of ANS and Alpha Nu Sigma and currently serves as secretary of the Aerospace Nuclear Science and Technology Division of ANS.

Elizabeth Tindle (Student/University Coordinator)

Elizabeth is a junior Radiological Health Engineering major planning on graduating in May 2015. She has served as the president of Texas A&M's Women in Nuclear Chapter and has been involved with the ANS nuclear science merit badge workshop program. Elizabeth was a member of an undergraduate research team working on the safety of spent fuel pools; she is currently an undergraduate research assistant with the Nuclear Power Institute working on a thermal heat rejection in space.

LETTER OF ENDORSEMENT FOR CHAIRS

DWIGHT LOOK COLLEGE OF ENGINEERING

Department of Nuclear Engineering

TEXAS A&M UNIVERSITY

February 26, 2014

American Nuclear Society
Student Conference Selection Committee

Dear Selection Committee Members:

It is my great pleasure to introduce Sarah Camba and Timothy Crook, who will be outstanding co-chairs of the proposed Texas A&M ANS Student Conference. Both have records of accomplishment in handling responsibilities and possess remarkable qualities of academic excellence and leadership. In addition, they have assembled an extensive and strong team to support the efforts of conference planning. I have the utmost confidence that together their efforts will result in an ANS Student Conference that is successful in all of its activities and purposes.

Ms. Camba is a proven leader who is currently serving as president of the Texas A&M chapter of Women in Nuclear. She is also an active member of the Society of Women Engineers and the Texas A&M student chapter of the American Nuclear Society. She is a student worker for the Nuclear Power Institute and has exhibited her commitment to the community both locally and internationally in high school STEM outreach events and programs partnered with the International Atomic Energy Agency. She has proven her academic excellence and research readiness by focusing on nuclear material storage site security projects with the Industrial & Systems Engineering department.

Mr. Crook has worked under my supervision since the summer of 2013 and I am his graduate adviser. He has proven to be a strong asset to our research program and a quick learner. During his work with my research team, he interacts with U.S. utilities and performs complex computational industrial projects for generic safety issues, such as GSI-191. The projects are supported by South Texas Project and Vogtle power plants. He has done an excellent job in tackling these complex tasks. I am very impressed with his technical accomplishments, leadership and dedication to our professional society. He has served as president of the Texas A&M ANS Student Society and is a member of the Nuclear Engineering Student Advisory Council. He has displayed his leadership skills and work ethic throughout his interactions with me while I have been serving as department head.

On behalf of the Department of Nuclear Engineering, we are committed and excited to host the ANS Student Conference at Texas A&M organized by Ms. Camba, Mr. Crook, and their team.

Best regards,

Yassin A. Hassan, Ph.D.
Department Head and Sallie & Don Davis '61 Professor in Nuclear Engineering

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COMMITTEE RULES AND REQUIREMENTS

Decision Making Process for the Conference Committee

The conference committee decision making process will be based on the hierarchy shown in the organization chart. Conflicts between committee members of the same level will be handled by their director. Director conflicts will be handled by the co-chairs, who will ask for advice from the faculty advisors. The unanimous decision of the two co-chairs is final. An unresolved disagreement between the two co-chairs will prompt a majority vote of the two co-chairs, four directors, and the sitting ANS student section president.

The conference committee will meet once a week to report progress to one another and solve any issues that may arrive. All meetings will have minutes recorded and sent to the department head and Nuclear Engineering Student Advisory Council.

Removal from the Conference Committee

Conference committee members will be subject to removal under the following circumstances:

- Missing 3 committee meetings without notifying the chairs
- Failing to meet designated deadlines
- Failing to maintain a semester GPA of 2.5 (undergraduate) or 3.0 (graduate). (TAMU Student Activities requirements)
- Any other action that leads the co-chairs to believe the individual is unfit to serve on the conference committee.

If any of these events occur, the co-chairs will draft a report of the incident to the conference committee for final authorization on the member's removal. If the member under review is a co-chair, the same process applies, but it is the responsibility of the other co-chair to write the incident report.

Day to Day Staffing

The large size of Texas A&M's Department of Nuclear Engineering (440 students) makes volunteer staffing easier. The conference committee expects that there will be between 100 and 200 students available to volunteer during the conference. Incentives to volunteer include:

- Rewards – conference polo shirt
- Student Engineering Council members earning volunteer hours
- Participation in A&M attendee-capped banquets and socials
- Professional development
- Increased involvement in ANS

Role of Staff and Reporting Relationship

Day-to-day staffers will have time slots and positions to sign up for that correlate to the conference committee's roles. The table on the next page shows the instantaneous staffing requirements for conference events. Tasks such as conference check-in receptionist will be divided into two-hour time slots. At any given time during the conference, no more than 28 volunteers will be needed.

Student Staffing Requirements

Event	Specific	Staff Required
Thursday		
Hotel Reception (Hospitality Coordinator)	Receptionist	2
	Hospitalities	2
	Total	**4**
Campus Tours (Technical Chair)	Tour Guides	2
	Total	**2**
Welcome Reception (Activities Coordinator)	Activities Coordinator	1
	Dinner Assistants	3
	All Purpose	6
	Total	**10**
Friday		
Hotel Reception (Hospitality Coordinator)	Receptionist	2
	Hotel Desk	2
	Total	**4**
Breakfast (Hospitality Coordinator)	Hospitality Coordinator	1
	All Purpose	2
	Total	**3**
Program (Technical Director)	Activities Coordinator	1
	Interview / Recruiter's Aide	2
	Career Fair	2
	Technical Sessions Room Proctors	4
	Food	2
	Technical Director	1
	Hospitalities	2
	Audio/Visual Help	4
	All Purpose	6
	Total	**24**
Tex-Mex Dinner (Logistics Director)	Activities Coordinator	1
	Dinner Assistants	3
	All Purpose	6
	Total	**10**
Downtown Bryan Social (Activities Director)	Activities Coordinator	1
	All Purpose	6
	Total	**7**
Saturday		
Hotel Reception (Hospitality Coordinator)	Receptionist	2
	Hotel Desk	2
	Total	**4**
Breakfast (Hospitality Coordinator)	Hospitality Coordinator	1
	All Purpose	2
	Total	**3**
Program (Technical Director)	Activities Coordinator	1
	Interview / Recruiter's Aide	2
	Career Fair	2
	Technical Sessions Room Proctors	4
	Poster Session Setup / Proctors	2
	Food	2
	Technical Chair	1
	Hospitalities	2
	Audio/Visual Help	4
	Workshops Chauffeurs	2
	All Purpose	6
	Total	**28**
Awards Dinner (Logistics Director)	Activities Coordinator	1
	Dinner Assistants	3
	All Purpose	6
	Total	**10**
Sunday		
Hotel Reception (Hospitalities Director)	Receptionist	2
	Help Desk	2
	Total	**4**

SCHEDULE/MILESTONES

Deadline	Task	Officer
	April	
April 5,2014	2014 Conference host announced	N/A
April 11,2014	Confirm conference committee	Conference Chairs
April 11,2014	Directors confirm coordinators	Conference Chairs
April 18,2014	Setup sub-accounts with SOFC	Finance Director
April 22,2014	Elect ANS officers and hold visions meeting	Conference Chairs
	May	
May 16,2014	Finalize conference date	Conference Chairs
May 16,2014	Reserve and block hotel and conference center	Hospitalities Coordinator
May 16,2014	Reserve all conference venues/performers	Activities Coordinator
May 21,2014	Create a marketing plan	Marketing Director
May 27,2014	Create sponsorship packets	Marketing Director
	June	
May 31,2014	Mail/Email sponsorship packets	Marketing Director
June 1,2014	Website up and running (barebones)	Website Coordinator
June 1,2014	Finalize budget	Finance Director
June 15-19,2014	Attend 2014 ANS Conference	
	July	
July 1,2014	Define topic tracks and post on website	Website Coordinator
July 1,2014	Hotel information on website	Website Coordinator
	August	
August 1,2014	Secure keynote, plenary speakers	Conference Chairs
	September	
September 1,2014	Invite judges	Technical Director
September 1,2014	Expect to have received 25% of sponsorships	Conference Chairs
September 1,2014	Confirm faculty session chairs	Technical Director
	October	
October 1,2014	Determine judging criteria for presentations	Technical Director
	November	
November 1,2014	Website updated with local information/tour details	Activities Coordinator
November 1,2014	Begin plans with caterers	Activities Coordinator
November 1,2014	Send advertising to schools/student sections	Marketing Director
November 1,2014	Determine information needed during registration	Conference Chairs
Nov. 9-13,2014	Attend ANS Winter meeting to update on progress	All
	December	
December 1,2014	Website updated with flight info, shuttles, etc.	Website Coordinator
December 1,2014	Determine sponsors of major events	Activities Director
December 1,2014	Itinerary set and posted on website	Website Coordinator
December 1,2014	Website registration page designed and ready to post	Website Coordinator
December 28,2014	Expect to have received 75% of sponsorships	Conference Chairs

January

January 1,2015	Registration opens	Website Coordinator
January 8,2015	Finalize social details	Activities Coordinator
January 8,2015	Advertise via student listserv mailing/newsletter	Marketing Director
January 8,2015	Gather materials for welcome packets	Marketing Director
January 8,2015	Design folders/bags and send to printers	Marketing Director
January 15,2015	Finalize room reservations	Activities Coordinator
January 15,2015	Recruit general student worker volunteers	Activities Coordinator

February

February 1,2015	Order supplies for hospitality rooms	Hospitalities Coordinator
February 1,2015	Order student/speakers gifts	Marketing Director
February 1,2015	Setup student worker schedules	Logistics Director
February 1,2015	Order student presentation awards	Technical Director
February 1,2015	Review abstracts as received	Technical Director
February 1,2015	Finalize plans for registration desk	Logistics Director
February 1,2015	Expect to have received 100% of sponsorships	Conference Chairs
February 1,2015	Confirm judges	Technical Director
February 1,2015	Confirm keynote, plenary speakers	Activities Coordinator
February 1,2015	Finalize career fair attendees and set floor plan	Conference Chairs

March

March 1,2015	Reserve chairs/tables/dividers for all events	Logistics Director
March 1,2015	Abstract/poster submission deadline	Technical Director
March 1,2015	Assemble welcome packets	Marketing Director
March 8,2015	Conference registration deadline	Conference Chairs
March 8,2015	Finalize tour schedules	Logistics Director
March 8,2015	Print t-shirts	Marketing Director
March 9,2015	Notify accepted presenters	Conference Chairs
March 9,2015	Finalize headcount with caterers	Hospitalities Coordinator
March 14,2015	Send final conference program booklet to printer	Marketing Director
March 14,2015	Print name badges	Marketing Director
March 14,2015	Finalize student presenter schedule	Technical Director
March 15,2015	Gather flight information and schedule shuttles	Logistics Director
March 21,2015	Send posters/signage to printer	Marketing Director
March 21,2015	Prepare boxes of materials needed for check-in	Logistics Director
March 21,2015	Receive career fair materials from companies	Conference Chairs
March 21,2015	Advertise career fair in Battalion student paper	Marketing Director

April

April 9-12,2015	Conference	All

Post Conference

April 28,2014	Send travel reimbursements	Finance Director
April 28,2015	Send thank you letters to sponsors, judges, venues	Conference Chairs
April 30,2015	Conference report submitted	Conference Chairs

LIABILITY

The committee acknowledges that there are risks associated with hosting the student conference. To protect all entities involved the conference chairs will meet with a Texas A&M Student Activities staff member to draft the appropriate contracts with conference vendors. In summary the conference liabilities will be as follows:

Transportation: Texas A&M Transit Service will assume liability while under contract for all transportation associated with their service.

Food: The food liability is covered by the food providers.

Alcohol: Attendees must present a valid ID showing that they are at least 21 years of age in order to receive any alcoholic beverage. Drink tickets will only be accepted if the person can present a valid photo ID with proof of their age.

Injury and Damage: Insurance will be secured through Texas A&M Student Activities including any shuttle driving by ANS student members. To ensure insurance coverage, student drivers must be employees of the university.

Money: In the event that a sponsor backs out last minute, we have plans on which events will need to be cut from the program to accommodate for the loss of funds. All purchases will be made with approval of the conference co-chairs and finance chair to ensure only sanctioned purchases are made. At least one of these individual's signatures will be required on all purchases.

CONCLUSION

Texas A&M's ANS Student Section would be honored to host the 2015 ANS Student Conference. We hope to inspire the attendees of the conference to expand their career goals beyond the borders of the US and get involved in the global nuclear community. With a large Department of Nuclear Engineering, Texas A&M has much to offer in hosting ANS student and professional members. We look forward to the possibility of extending the resources of two operating nuclear reactors, multidisciplinary research laboratories, and experienced faculty to the nation's nuclear engineering and health physics students. At an Aggie-hosted student conference, students will experience unique workshops including the opportunity to start up a reactor for the first time! The conference will educate future nuclear professionals in workshops and technical sessions, inspire them with speakers and the career fair, and entertain them with evening socials. The committee plans to work diligently throughout the next year to make the conference a rewarding experience for all attendees. Thank you for taking the time to read and evaluate our proposal.

SUPPORT

DWIGHT LOOK COLLEGE OF ENGINEERING

Department of Nuclear Engineering

TEXAS A&M UNIVERSITY

February 26, 2014

American Nuclear Society
Student Conference Selection Committee

Dear Selection Committee Members:

On behalf of the Department of nuclear Engineering at Texas A&M, I'd like to express my full support of the Texas A&M University Student Chapter and their plan to host the 2105 American Nuclear Society National Student Conference. The Texas A&M chapter membership is large and unquestionably capable of hosting an excellent, vibrant, and engaging conference; the chapter is eager to undertake this endeavor.

The Texas A&M student chapter has earned national recognition for their achievements in public service and the advancement of nuclear engineering. The honor of hosting the national student conference would provide Texas A&M students with the opportunity to build upon their experiences, and a chance to further their public outreach service. Our department and college are fully committed to raising the bar of excellence and developing an understanding of nuclear science. I believe that the student chapter will organize a stimulating conference experience for all.

On behalf of the department and university, we look forward to a favorable decision and the opportunity to host the ANS Student Conference. Please do not hesitate to contact me should you have any questions.

Sincerely,

Yassin Hassan, Ph.D.
Department Head and Sallie & Don Davis '61 Professor in Nuclear Engineering
Professor in Mechanical Engineering

337 Zachry Engineering Center
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TEXAS A&M UNIVERSITY

College of Engineering
Department of Nuclear Engineering
3133 TAMU
College Station, Texas 77843-3133
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Nuclear Engineering
Health Physics

Radiological Health
Engineering

Date: February 12, 2014

Dear ANS Student Conference Selection Committee:

I am writing this letter to indicate my strong support for our student chapter to host the 2015 American Nuclear Society National Student Conference. I have been delighted to serve as an advisor to the chapter, and am planning on being active in the planning and logistics for the conference, should the Texas A&M student chapter be selected. Additionally, I will do my best to leverage the resources and time of other faculty members in our department to make the event a resounding success.

If you have any further questions for me, I would be happy to answer them.

Sincerely Yours,

Ryan G. McClarren, Ph.D.
Assistant Professor
Dept. of Nuclear Engineering

RGM:rgm

DWIGHT LOOK COLLEGE OF ENGINEERING

Department of Nuclear Engineering

TEXAS A&M UNIVERSITY

March 1, 2014

Student Sections Committee
ANS Education and Training Division

Dear ANS Student Sections Committee,

I am writing this letter to give my strongest support to the Texas A&M University—American Nuclear Society Student Section for their plan to host the 2015 American Nuclear Society National Student Conference. As the Faculty Advisor of TAMU-ANS, I will work with student leaders and provide all necessary help. This support letter also represents the anomalous agreements on departmental supports from all faculty of the Department of Nuclear Engineering at TAMU.

We treat this event as a wonderful chance to provide services to the public to promote student research and education in the field of nuclear engineering. Representing the largest nuclear engineering program in US, TAMU-ANS has great enthusiasm, excellent student leaderships, strong supports from students and faculties to make the conference successful. Furthermore, we have demonstrated our capability for the successful organization of 2008 ANS Student Conference. We have complete confidence, which is built directly on the experience gained from our past hosting.

Please don't hesitate to contact me if you have any questions about this support letter. We are looking forward to hearing a favorable decision from you.

Best regards,

Lin Shao, Ph.D
Associate Professor, and TAMU-ANS Advisor
Department of Nuclear Engineering
Texas A&M University
College Station, Texas 77843
lshao@ne.tamu.edu
979-845-4107 (Office)
Office Location: 335R Zachry

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TEXAS A&M ENGINEERING EXPERIMENT STATION

NUCLEAR POWER INSTITUTE

TEXAS A&M UNIVERSITY

February 25, 2014

Dear ANS Student Conference Selection Committee:

The Nuclear Power Institute at Texas A&M University is pleased to commit support to the A&M Student Chapter to host the 2015 ANS Student Conference. This is a very exciting event that is extremely important for the professional development of young people embarking on careers in the nuclear field.

The Nuclear Power Institute will provide assistance to achieve their goal of expanding international participation in the event. NPI has an extensive network around the world relating to human resource development for the nuclear industry. We will provide contacts and support in utilizing this network to attract participants from several countries, including not only developed nations with mature nuclear industries, but "newcomer" countries embarking in nuclear for the first time. International participation of young people will be of importance in the use of nuclear energy in their own nations.

Sincerely,

K L Peddicord

K. L. Peddicord
Director

TEL. 979.845.5828 | FAX 979.845.1273
nuclearpowerinstitute.org
304 Zachry Engineering Center | 3475 TAMU | College Station, TX 77843-3475

TEXAS A&M ENGINEERING EXPERIMENT STATION

Nuclear Security Science & Policy Institute

TEXAS A&M UNIVERSITY

February 28, 2014

American Nuclear Society
Student Conference Selection Committee

Dear ANS Student Conference Selection Committee Members,

The Nuclear Science Security and Policy Institute (NSSPI) is proud to lend support to the Texas A&M Student Chapter of the American Nuclear Society in their bid to host the 2015 Student Conference.

NSSPI is committed to educating students in safeguarding nuclear materials and reducing nuclear threats. This mission is not one that applies solely to Texas A&M University, but nationally and globally. We partner with both U.S. national laboratories and the IAEA. NSSPI has collaborated and worked with institutions and organizations from fifteen countries, including China, Kenya, Russia, Nigeria, and South Korea. We believe in the international importance of nuclear security, and for this reason strongly agree with the proposed theme, "Powering Tomorrow Together." The students putting forth this proposal have recognized the global impacts that are key in nuclear energy and science.

NSSPI is committed to aiding this conference by sponsoring a workshop hosted at "Disaster City" where, teams of students will respond to a simulated nuclear disaster. Disaster City is a regional urban search and rescue training ground, located in College Station, TX. The entire facility is composed of structural disaster scenarios such as train wrecks, earthquakes ridden structures, and rubble. In this workshop students will be instructed on field measurements, contamination levels and identification of sources. Additionally, NSSPI will partner in sponsoring a nuclear securities workshop.

Hosting the conference at A&M provides unique opportunities for students to experience a large nuclear engineering department and all the resources ours has to offer. NSSPI will lend a supportive hand and gladly sponsor workshops if Texas A&M is chosen to host the 2015 student conference.

Sincerely,

Craig M. Marianno, PhD CHP
Research Engineer, Visiting Assistant Professor
Nuclear Security Science and Policy Institute (NSSPI) | Texas A&M University
3473 | College Station, TX 77843

Contact Information
Office +1-979.845.7092 | fax +1-979.845.6443
Email: nsspi@tamu.edu
http://nsspi.tamu.edu

Mailing Address
Nuclear Security Science & Policy Institute
3473 TAMU
College Station, TX 77843-3473

February 28, 2014

Dear American Nuclear Society Student Conference Selection Committee,

I would like to express the support of the Texas A&M University Engineering International Programs Office for the selection of the Texas A&M University American Nuclear Society to host the 2015 ANS Student Conference.

The mission of the Engineering International Programs Office is to provide opportunities for college of engineering students to become global leaders; to develop international partnerships in support of the internationalization of research and education; and to implement programs that will allow the college of engineering to be recognized as a national and international education and research leader in engineering and technology. Under this mission, we have more than 20 programs for our students to study abroad, many partnerships all over the world, and several programs that allow international students to come to Texas A&M for a degree or a short term experience. Some of those programs are: the Reactors Systems Engineering in China, Science without Borders: Brazil, the Texas A&M University Qatar campus and many others.

The chosen theme of *Powering Tomorrow Together* is very much aligned with the mission of my office and the College of Engineering at Texas A&M University. I also believe is a powerful theme considering the global economy we face today. In coordination with the ANS student chapter we will encourage the international students that our office interacts with to present research related to energy generation fields at the conference. Considering the scope of this proposal and the mission of my office if the conference takes place in our campus we will help provide an avenue for publicity and add an international perspective to this conference.

Please consider the international opportunities you would be providing students by choosing Texas A&M University as the host for the 2015 ANS Student Conference.

Sincerely,

Maria Claudia Alves Baudier, M.S.
Director
Engineering International Programs

ENGINEERING INTERNATIONAL PROGRAMS OFFICE
Qatar Support Office
121 Zachry Engineering Center
3126 TAMU
College Station, TX 77843-3126
Tel. 979.845.2295

DWIGHT LOOK COLLEGE OF ENGINEERING
DEPARTMENT OF NUCLEAR ENGINEERING

TEXAS A&M UNIVERSITY

February 27, 2014

Selection Committee
ANS National Student Conference
American Nuclear Society

Dear Committee Members:

I am writing to support the proposal entitled "Powering Tomorrow Together" submitted by the Texas A&M University Student Section to host the 2015 ANS National Student Conference. I have reviewed the proposal in detail and believe it is a very strong and compelling proposal. Our students have put a tremendous amount of effort into this endeavor. Should they be selected as host, I anticipate an outstanding effort in planning and conducting the meeting. I endorse their proposal enthusiastically and without the slightest reservation. I know they will host an outstanding student conference which will set the standard for many future conferences.

The twin cities of College Station and Bryan and the Texas A&M campus are great locations for a student conference. Our facilities are truly outstanding. The Texas A&M ANS Student Section has established a reputation for hosting excellent student meetings in the past and I am sure the participants will not be disappointed by the efforts of the current student leaders. I urge you to give their proposal careful review and consideration and I look forward to congratulating the Texas A&M team when they are selected to host the 2015 ANS National Student Conference.

If you require additional information, please let me know.

Sincerely,

John W. Poston, Sr., Professor
Associate Director
Nuclear Power Institute

3133 TAMU
College Station, Texas 77843-3133
Tel. 979.845.4161 Fax. 979.845.6443
nuclear.tamu.edu

DWIGHT LOOK COLLEGE
OF ENGINEERING

Department of Nuclear Engineering

TEXAS A&M UNIVERSITY

February 28, 2014

Dear ANS Conference Selection Committee:

On behalf of our respective student organizations, the Texas A&M University student chapters of the Health Physics Society, Institute of Nuclear Materials Management, and Women in Nuclear wish to express our support of this proposal to host the 2015 ANS student conference. The committee chairs approached us with this proposal and we back the choices made by the committee members in planning this conference.

The Texas A&M University Department of Nuclear Engineering is fortunate to have student chapters that are supportive of one another and strive to assist each other in producing quality programming.

As you consider this proposal, know that the ANS student chapter has our full support if hosting the 2015 ANS student conference. We will endeavor to fully market the conference to our members and step in with volunteers if called upon.

Regards,

Jamie Bentley
HPS President

Nicholas Quintero
INMM President

Sarah Camba
WIN President

337 Zachry Engineering Center
3133 TAMU
College Station, TX 77843-3133

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engineering.tamu.edu/nuclear

I pledge my time and effort in support of the Texas A&M ANS Student Chapter hosting the 2015 ANS National Student Conference. This includes event set-up, staffing, or help as otherwise needed by the conference chairs or coordinators.

NAME	SIGNATURE
Jordan Douglas	
Jonathan Dahn	
FARHAN SIDDIQUI	
Marina Pulley	
James Spencer	
Luz Maria Martinez	
John Hoffpauir	
Gleb Khuzmin	
Matthew Garza	
Timothy Jacomb-Hood	
Laura Saddoth	
Kirsten Denton	
Mauricio Perez	
Christina Kalich	
Kathryn McGee	
Nathan Powell	
John Layne Budd	
Meyyappan Subbaiah	
Natalie Galegar	
Julien Clayton	

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NAME	SIGNATURE
KatieRochelle	
TAYLOR R HASE	
Matthew Sapa	
Royal Elmore	
John Calvin Martinez	
Desirae Fryer	
Carl Hurd	
ANDREW HOHERTZ	
Andrés Morell Pacheco	
Colby Sherman	
Ernesto Ordoñez	
Morgan Munera	
Margaret Kendrick	
Kyrene Riley	
Liz Smith	
Qendrim Dervishi	
Conner Barry	
Jarrod Antley	
Ricardo Gaytan	
Debra Roussel	
Shane Seabolt	
Michael Norman	
Jamie Bentley	
Robert Du	
~~[illegible]~~ LANE CARASIK	

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NAME	SIGNATURE
Aaron Brent Mowry	
JEAN LIM	
Holly Parenica	
CHAD O'HAGAN	
Nancy Garcia	
Anna Armstrong	
Joshua Rangel	
Cameron Crawford	
Luis Villegas	
Stephanie Urrutia	
Autumn Kalinowski	
Jonathan Ohler	
Pearl Njoku	
Prasanna Kandula	
Gage Green	
Tek Pandey	
Thomas Pelkmann	
Logan Harbour	
Michal Pate	
HARRISON WILLIAMS	
Fira de los Reyes	
Kevin Miller	

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NAME	SIGNATURE
Trevor Bellon	
PATRICK MORALES	
Matthew Garza	
Hannah Hanany	
Kana Fukuoka	
Tiffany Lee	
Tyler Lamhorn	
Nick Whitman	
JOSHUA SMITH	
Anna Laura Licon	
Sierra Sanders	
Jessica Taylor	
Melanie Sinadi	
Emily Thompson	
Hanna Bunting	
Andres Tajonar	
Kristina Yancey	

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NAME	SIGNATURE
Chu Tao	
Nicholas Mowers	
Francisco España	
Bobby Pinkston	
Hong Jun Zhu	
Jessica Taylor	
Andrew Buttars	
Dimitri Michaelides	
Scott Morris	
Marina Hanna	
Analisa Islas	
Patrick Fike	
Joshua P. Conklin	
Miltiadis Kennas	
Can Pu	
Joel Thyfian	
Doug Mckenna	
Timothy Brook	


2015 ANS Student Conference
Powering Tomorrow Together
Texas A&M University