

# **ANS: Coming Together to Split the Atom**



2010 ANS Student Conference Proposal  
Submitted by,  
University of Michigan ANS Student Section

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# **1. Why University of Michigan Should Host the 2010 Student Conference**

## **1.1. Conference Vision**

The 2010 ANS Student Conference at the University of Michigan, “ANS: Coming Together to Split the Atom,” will focus on the growth potential of the nuclear industry, by implementing the unique concept of integrating technical programming for the next generation of the nuclear workforce with public outreach and education. The main goals of this conference are to:

- Provide extensive technical education to nuclear engineering students
- Facilitate networking between students at different universities and between students and professionals
- Extend outreach and mentorship opportunities to nuclear engineering students, and provide ideas for outreach activities that students can take back to their ANS Student Sections
- Educate members of the public about nuclear technology and the expansion of the nuclear industry

The primary audience of the conference will be university students enrolled in nuclear engineering programs. However, recognizing that younger students and the public are key players in the expansion and future of the nuclear industry we will also have programming targeted at involving these groups. In an attempt to maintain the workforce needed for Michigan’s energy infrastructure several high school/community college programs have been formed to train students in energy technologies. These programs have inspired the Young Scholars Program that the 2010 student conference will pioneer. The conference will be advertised to science departments at smaller universities in the area also emphasizing the community colleges in Michigan with nuclear technology associate degrees such as Lake Michigan College. The Public Forum held Saturday afternoon will be advertised throughout the community to give the public an opportunity to interact with the wealth of knowledge about nuclear technology that will be coming to campus as a result of the conference. These different audiences will be targeted through a combination of technical, non-technical, historical and forum sessions. We believe that a diverse set of participants at the conference will enhance the experience for all attendees.

## **1.2. Preparation**

The University of Michigan Student Conference Proposal has been a three year work-in-progress with sixteen section members actively contributing to this submission. The committee is composed of an almost equal balance of undergraduate and graduate students. The conference management structure is designed to distribute the workload such that students can have a leadership role without an overwhelming workload. Information about the conference chairs and other selected committee members is provided in Appendix A. Our demonstrated commitment to hosting the ANS Student Conference has allowed us to obtain letters of support from our department chair and the Dean of the College of Engineering (Appendix B). We have already received funding pledges from our department, College of Engineering, Michigan Student Assembly, Rackham Graduate School and Michigan ANS.

The proposal committee has done extensive research into the exact costs of hosting the conference including getting group rate quotes for the hotels and pricing out menu plans for all meals during the conference. When we are awarded the Student Conference we will immediately be ready to put deposits down for all reservations. This preparation is essential as many university facilities begin booking a year in advance.

We have planned this conference in such a way that from the time when participants arrive at the airport they will not be required to pay for anything nor arrange for any transportation. We will charter University of Michigan buses to provide transportation to/from the airport and all conference events. Additionally, participants may take the regular University of Michigan buses around campus for free. The free transportation also extends to the invited speakers through an on-call chauffeur service that we will provide with rented university vehicles. All meals will be provided from Thursday until the Saturday night Awards Banquet. If participants choose to skip a meal, ample inexpensive food options are within walking distance of the conference facilities.

We are well on our way to the preparation of publicity materials both to recruit participants and to solicit funding. We have already established a conference website which can be published as soon as we are notified that we will be hosting the conference. A preliminary online registration form is included with other website snapshots in Appendix G or can be viewed on the web at <http://www.engin.umich.edu/soc/ans/proposal/>. We recognize the importance of advertising at the June National ANS Conference and several of our committee members have committed to presenting our prospectus at the meeting.

In reading through the details of this proposal you will see that all preliminary planning is done and we are ready to start making this conference a reality.

### 1.3. Program Highlights

The University of Michigan Student Conference will have many unique components designed to enhance the experience of attendees:

#### Professional Development:

- MCNP workshop
- Communications workshop

#### Academic Development

- Technical sessions
- Historical and non-technical sessions for a more well rounded understanding of nuclear engineering
- Professional and graduate school mentorship pairings

#### Outreach

- Opportunity to mentor high school/community college students
- Teachers Workshop to enhance nuclear engineering education in area high schools
- Public forum

Fun

- Opportunity to suit up in radiation protection outfits on the Cook Power Plant Tour
- Planned social activities every night of the conference
- River Boat Cruise

#### 1.4. About the University of Michigan Student Section

The first nuclear engineering course at the University of Michigan was taught in 1947 (five years after the first demonstration of controlled fission) and the graduate program was established shortly thereafter in 1952. The Department of Nuclear Engineering was formally established in 1958. The department currently has 116 undergraduate students and 103 graduate students and is rapidly expanding.

##### *1.4.1. Outreach Activities*

The University of Michigan student chapter of the American Nuclear Society is a very active chapter with particular emphasis on outreach activities in addition to social, professional, and career enhancement events. Our extensive outreach activities have been recognized with the 2002 & 2005 Glasstone awards as well as an honorable mention in 2007. Examples of our outreach experience include: Energy Fest, Sally Ride Festival, Detroit Area Pre-College Engineering Program, Student Shadow Days, Tech-Day, high school visits and making valentines for Glacier Hills Medical Rehabilitation Center. This established interest in outreach that our members have demonstrated was the motivation for the design of the 2010 Student Conference.

##### *1.4.2. Planning Committee*

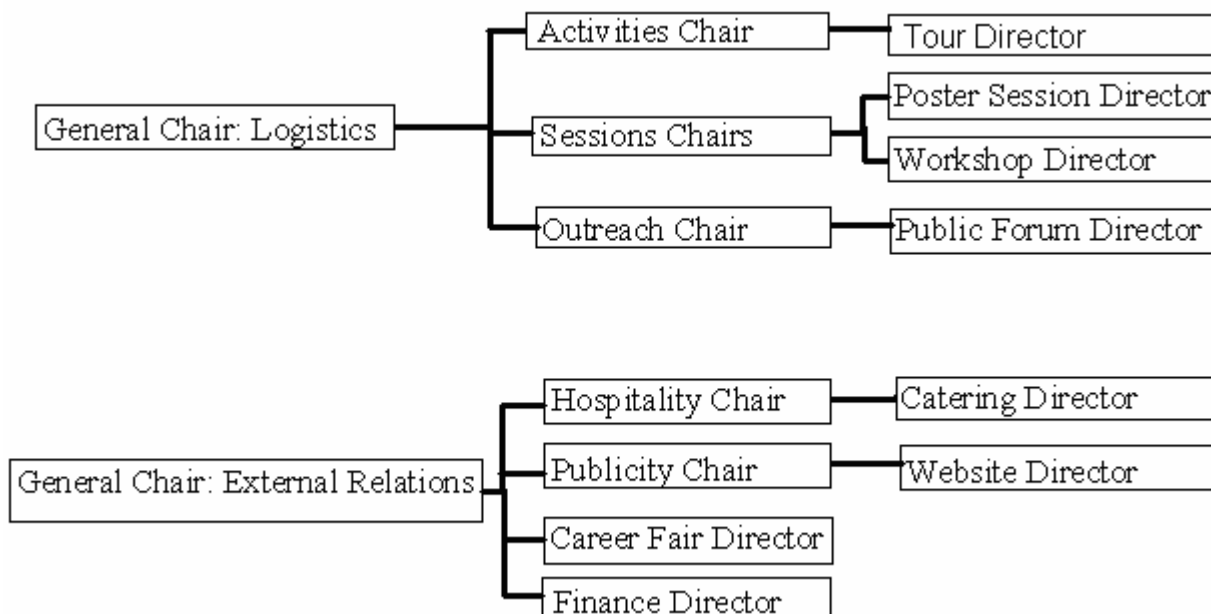
UM-ANS is excited about hosting the 2010 ANS National Student Conference. The planning committee represents a broad spectrum of class levels, skills and interests. We are confident that we will host an awesome conference, especially since we have the opportunity to draw on the expertise of several students that participated in the planning of previous student conferences. Biographies of selected committee members are provided in Appendix A. We hope that this proposal conveys to you our potential to host an exceptional student conference.

## 2. Management Structure

### 2.1. Responsibilities and Descriptions

The UM ANS Section is comprised of nearly 50 active members. As demonstrated by the outreach activities that we host throughout the year, we never have a shortage of volunteers. The chair positions will be filled by current committee members who are introduced in Appendix A. A milestone timeline is provided in Appendix C giving some of the more specific tasks each chair will oversee. This timeline is not intended to be all-inclusive but rather to give a general idea of the expectations of each position.

Below is a schematic of the management structure followed by descriptions of the responsibilities.



#### 2.1.1. General Chair – Logistics: Michaela Eddy

The General Chair: Logistics will co-ordinate the logistics of the entire conference. This person will:

- Plan and organize the entire event with the committee chairs and the volunteers
- Along with the General Chair: External Relations, the General Chair: Logistics will serve as an interface between the Conference Committee, important guests, speakers, faculty, department administrators, Student Sections Committee (SSC), ANS-HQ and other bodies that become a part of the conference
- Be responsible for any tasks not delegated to one of the other chairs
- Directly oversee: Activities Chair, Sessions Chairs, Outreach Chair

#### 2.1.2. General Chair – External Relations: Travis Trahan

The General Chair: External Relations is the primary contact for conference donors and will oversee all fundraising activities. This person will:

- Create a sponsor recruitment packet
- Establish cost structure for advertisements in conference publications
- Along with the General Chair: Logistics, the General Chair: External Relations will serve as an interface between the Conference Committee, important guests, speakers, faculty, department administrators, Student Sections Committee (SSC), ANS-HQ and other bodies that become a part of the conference
- Directly oversee: Hospitality Chair, Publicity Chair, Career Fair Director, Finance Director

### 2.1.3. Activities Chair: Mahima Gupta

The Activities Chair will oversee the committees responsible for the mixer, awards banquet and tours. They will:

- Reserve necessary space for social events, banquet and tours
- Work with catering committee for providing meals at social events
- Work with the hospitality chair to assure transportation to/from events
- Directly oversee: Tour Director

### 2.1.4. Sessions Chair: Anne Campbell

The Sessions Chair will oversee both the technical and non-technical sessions committees as well as the MCNP workshop. They will:

- Oversee review and categorization of abstracts
- Determine session presentation schedule
- Determine necessary rooms sizes for each session
- Obtain A/V equipment when not provided in session room
- Organize poster session
- Develop judging criteria
- Recruit judges
- Determine award structure
- Directly oversee: Poster Session Director, Workshop Director

### 2.1.5. Hospitality Chair: Robyn Spink

The Hospitality Chair will oversee the transportation and catering committees as well as be responsible for accommodations. They will:

- Provide recommendations and assistance regarding accommodations for attendees
- Arrange for use of hotel facilities/catering for social functions
- Provide recommendations and assistance regarding travel to Ann Arbor
- Arrange and manage daily transportation between attendee hotels and the conference facilities
- Directly oversee: Catering Director

### 2.1.6. Outreach Chair: Jennifer Dolan

The Outreach Chair will oversee the outreach components of the conference. They will:

- Identify and advertise the conference to smaller area schools
- Oversee the application process for high school student attendees
- Directly oversee: Public Forum Director



#### 2.1.7. *Publicity Chair: Chris McGuffey*

The Publicity Director will oversee the publicity committee and webmaster. They will:

- Design and distribute information pamphlets
- Work with fundraising committee for advertising space on conference publications
- Directly oversee: Website Director

#### 2.1.8. *Finance Director: Matthew Weis*

The Finance Director will be responsible for keeping an up-to-date budget. They will:

- Monitor the budget throughout and after the event
- Keep records, receipts, databases and track revenues and expenses
- Apply for a tax ID and write the final financial report for ANS-HQ

#### 2.1.9. *Website Director: Ross Barnowski*

The website director will be responsible for creating and maintaining the website. They will take an active role in identifying useful information for the website as well as post information requested by other conference committee members.

#### 2.1.10. *Poster Session Director: Adam Higuera*

The Poster Session Director will oversee all aspects of the poster session. With the assistance of volunteers, they will:

- Create lay-out of the poster session
- Acquire necessary materials for the poster session
- Set-up/Tear-down poster session

#### 2.1.11. *Career Fair Director: Yvan Boucher*

The Career Fair Director will oversee all aspects of the career fair. With the assistance of volunteers, they will:

- Recruit company/university participants
- Arrange for delivery and set-up of career fair supplies
- Work with the Hospitality Chair to meet the needs of career fair participants

#### 2.1.12. *Workshop Director: Seth Johnson*

The Workshop Director will oversee the committees responsible for the three conference workshops to ensure the events blend well with the overall conference. They will:

- Coordinate the teachers workshop with MI-ANS
- Make arrangements for the communications workshop with the ANS-National Public Information Committee
- Facilitate the MCNP workshop

#### 2.1.13. *Public Forum Director: Janelle Penisten*

The Public Forum Director will oversee all aspects of the public forum. They will:

- Design and distribute advertising
- Invite panelists
- Moderate the event

#### 2.1.14. Tour Director: Adam Hoffman

The tour director will oversee all arrangements for the offsite and onsite tours including Cook Power Plant and the National Superconducting Cyclotron Laboratory. They will:

- Work with the power plant and laboratories to provide attendee lists
- Work with hospitality chair to arrange transportation to/from tours

#### 2.1.15. Catering Director: Elaine West

The catering director will work closely with the other chairs and directors to provide catering for all events. They will:

- Research catering options
- Place all catering orders

#### 2.1.16. Volunteer Coordinator: AJ Hunter

The volunteer coordinator will recruit volunteers and keep record of volunteer contributions. Committee members will defer to the volunteer coordinator when assistance is needed rather than each individual organizing their own volunteer efforts. The volunteer coordinator will assure that volunteer time is used optimally.

### **3. Michigan Conference Plan**

#### **3.1. Proposed Dates**

Dates for the conference are proposed to avoid the spring breaks and final schedules for universities with active ANS chapters. Easter is another consideration; in 2010, Easter occurs in the first week of April (Easter falls on Sunday, April 4<sup>th</sup>). The following are the dates proposed in order of preference:

- April 8<sup>th</sup>-11<sup>th</sup> (no conflicts)
- February 25<sup>th</sup>-28<sup>th</sup> (overlaps with last weekend of UofM break, no other conflicts)
- April 1<sup>st</sup>-4<sup>th</sup> (no spring break conflicts, Easter weekend)

Appendix D shows spring breaks for the universities considered.

#### **3.2. Schedule of Events**

In order to maximize the value of the conference for a wide spectrum of educational interests, the 2010 student conference will have multiple session types running concurrently. At most time's attendees will have the opportunity to attend peer presentations (both technical and non-technical) or the career fair. Friday lunch will be split into two rooms each with a different presenter or discussion. For Saturday lunch, participants will have the option between a corporate sponsored lunch or a mentoring lunch.

Participants will have the option of a tour of the Cook nuclear power plant or National Superconducting Cyclotron Laboratory on Sunday if their flight arrangements permit.

	Thursday			Friday			Saturday			Sunday		
8:00-8:30a					Jud. Bkts			Jud. Bkts	Optional Cook Power Plant and Cyclotron Tours	8:00-8:30a		
8:30-9:00a				Break fast			Break fast			8:30-9:00a		
9:00-9:30a	Registration									9:00-9:30a		
9:30-10:00a										9:30-10:00a		
10:00-10:30a		Campus Tours			Presentation Sessions	Career Fair & Interviews	Teacher Workshop	Presentation Sessions		Career Fair & Interviews	10:00-10:30a	
10:30-11:00a											10:30-11:00a	
11:00-11:30a											11:00-11:30a	
11:30-12:00p											11:30-12:00p	
12:00-12:30p					Lunch						12:00-12:30p	
12:30-1:00p											12:30-1:00p	
1:00-1:30p											1:00-1:30p	
1:30-2:00p											1:30-2:00p	
2:00-2:30p			Workshops									2:00-2:30p
2:30-3:00p												2:30-3:00p
3:00-3:30p												3:00-3:30p
3:30-4:00p												3:30-4:00p
4:00-4:30p												4:00-4:30p
4:30-5:00p												4:30-5:00p
5:00-5:30p												
5:30-6:00p												5:30-6:00p
6:00-6:30p												6:00-6:30p
6:30-7:00p	Welcome Reception			Dinner								6:30-7:00p
7:00-7:30p	[Hotel]			[Michigan Union]							7:00-7:30p	
7:30-8:00p	*6:30p-8p*			*6:30p-8:00p*							7:30-8:00p	
8:00-8:30p	Mixer [Hotel] *8:00p-Midnight*			Mixer [Michigan Union] *8:00p-Midnight*							8:00-8:30p	
8:30-9:00p											8:30-9:00p	
9:00-10:00p											9:00-10:00p	
10:00+											10:00+	
									Night Out [Downtown] *10:30p - 1:30am*			

### 3.3. Conference Distinguished Speakers

Dr. James J. Duderstadt has kindly accepted our request to be the distinguished speaker at the conference. Dr. Duderstadt was the President of the University of Michigan until 1996 and has chaired numerous public and private boards such as the National Science Board, the Executive Council of the National Academy of Engineering, and the Public Policy of National Academy of Sciences: Nuclear Energy Research Advisory Committee. Prior to his role as University President, James Duderstadt held a faculty position in the Department of Nuclear Engineering and Radiological Sciences at the University of Michigan, progressing to Dean of the College of Engineering as well as Provost and Vice President for Academic Affairs.

Mr. Jim Fici, Senior Vice President of Westinghouse, has also acknowledged our invitation to tentatively be the distinguished speaker for the given dates. Prior to his current position, Mr. Fici was the senior vice president of Westinghouse Nuclear Power Plants. While occupying this position, Mr. Fici was responsible for the development and licensing of AP1000. He also

signed contracts with South Korea for Westinghouse to provide major reactor components, instrumentation and control, and technical and engineering support services to four new nuclear power plants in that country.

When we are awarded the conference we will invite the following additional speakers:

- Former United States Senator Pete Domenici
- Anthony Earley, Jr. – Chairman and CEO DTE Energy
- Fermi Representative – experiences in reactor scram and licensure

### 3.4. Sessions

The sessions are an integral part of the ANS student conference, as they facilitate the exchange of technical information and a broader consciousness of the nuclear engineer's role in society. In recognition of these two somewhat different aims, each session will be designated as either technical or non-technical.

#### 3.4.1. Technical

Nuclear engineering students are doing exciting work in a variety of areas, and the technical sessions are their opportunity to present it to their peers from around the country. The presentations should be an exciting sample of the state-of-the-art and could include developments in advanced reactor concepts, nuclear waste management, non-proliferation, nuclear safety or other research topics. The Sessions Committee will review all abstracts and group the sessions by topic, so that conference attendees can select the talks of greatest interest to them. Presenters have the option of an oral or poster presentation format.

#### 3.4.2. Non-Technical

While the technical sessions expose students to the cutting edge of nuclear technology, the non-technical sessions focus on nuclear technology from a historical and social perspective. These sessions will touch on seminal historical topics such as the origins of nuclear research during the Manhattan project and the Eisenhower Atoms for Peace movement that helped to shape the present-day nuclear industry.

Of equal concern is the shape of tomorrow's nuclear industry, and these sessions will address the role of nuclear energy in rising to the challenge of simultaneously reducing carbon emissions and meeting growing energy demand. Also focused on the future are the policy analysis sessions, where students will present and learn about nuclear policies. Finally, the non-technical sessions aim to inform students about their own, personal futures, and one or more of the sessions will be an internship panel, where older students will be available to discuss opportunities in the nuclear industry with students earlier in their academic careers.

The non-technical presentations will be divided between student presentations and the conference's distinguished speaker series. The distinguished speaker series will feature addresses by eminent nuclear engineers such as the University of Michigan's own James J. Duderstadt. The distinguished speaker series will be open and advertised to the general public, and will take place in the spacious Rackham auditorium to accommodate the likely larger crowds.

### 3.4.3. Awards

At Saturday night's awards banquet, the outstanding presentations given over the course of the conference will be recognized. An undergraduate and graduate student from each session will receive an award valued at \$150. It is estimated that 32 awards will be given. Judges will be invited from industry, government and academia, and will rank the presentations according to criteria devised by the sessions committee. The sessions committee will review judging sheets and determine award winners prior to the awards banquet.

## 3.5. Workshops

### 3.5.1. MCNP

MCNP is an essential tool for success as a nuclear engineer. Given this, an MCNP workshop will be held on the Thursday prior to the start of the conference. The lead instructor for the workshop will be Professor Sara Pozzi, developer of MCNP-PoliMi, with the assistance of Assistant Research Scientist Marek Flaska and Postdoctoral Research Fellow Shaun Clarke. The workshop will be held in a computer lab accommodating up to 61 participants.

### 3.5.2. Communications

Effective communication with the public poses a challenge to many in the nuclear field. In preparation for the public forum and other outreach events participants may have planned, the Public Information Committee of ANS-National will conduct a communications workshop focusing on communicating nuclear issues to the public, pre-college educators and students. The lead instructor for this workshop will be Candace Davison, chair of the Public Information Committee.

## 3.6. Tours

### 3.6.1. National Superconducting Cyclotron Laboratory

On Sunday, attendees will have the option of attending a tour of the National Superconducting Cyclotron Laboratory (NSCL) at Michigan State University in East Lansing. The NSCL is a world leader in rare isotope research, as well as fundamental nuclear science, nuclear astrophysics, and accelerator physics. The lab operates two superconducting cyclotrons, one of which was the world's first cyclotron to use superconducting magnets and the other is the highest-energy continuous beam accelerator in the country.

### 3.6.2. Cook Nuclear Power Plant

Alternately, on Sunday the attendees have the option of a tour of Cook Nuclear Power Plant, located on 650 acres along Lake Michigan's eastern shore near Bridgman, Michigan. Cook is a two unit Westinghouse pressurized water reactor (PWR) power plant owned by American Electric Power (AEP) and operated by Indiana Michigan Power, an AEP subsidiary. The plant is an integral part of the regional economy, providing employment for 1000 people and electricity for over one and one half million homes. Conference attendees on the tour will see the Cook Energy Center as well as plant facilities. The tour highlights include the opportunity to simulate operations in the reactor control room and learning how to properly don radiation protection suits.



### 3.6.3. Campus Tours

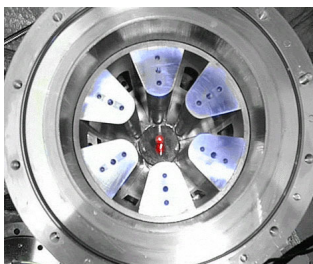
For those visitors who are interested, tours of the University of Michigan Central Campus and North Campus will be arranged for Thursday. The beautiful Central Campus is the home of the College of Literature, Science, and Arts, the University of Michigan Business School, and the University of Michigan Law School. The Central Campus tour will include the “Diag,” which is the heart of the campus, as well as the Michigan Union, where then Senator John F. Kennedy announced the Peace Corps in 1960.

The North Campus contains the College of Engineering, School of Music, and School of Art & Architecture. For our guests from ANS, the North Campus tour will mainly focus on the engineering facilities at the University of Michigan, with special attention paid to the department of Nuclear Engineering and Radiological Sciences (NERS). Some of the NERS facilities that will be presented are:

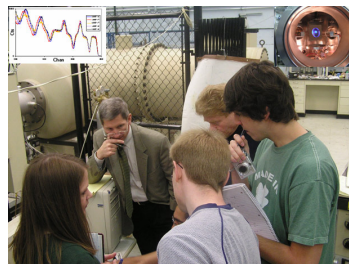
- Michigan Ion Beam Laboratory
- Michigan Memorial Phoenix Energy Institute & the Co-60 7.5 kCi Source
- Plasma, Pulsed Power, and Microwave Laboratory
- Radiological Health Engineering Laboratory
- High Temperature Corrosion Laboratory
- Irradiated Material Testing Laboratory
- Low-Temperature Plasma Laboratory
- Hercules Ultra-high Intensity Laser



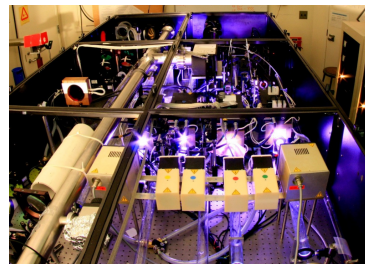
Z-Pinch Plasma



Relativistic Magnetron



Tandem Accelerator



Hercules Petawatt Amplifier

### 3.7. Career Fair

The career fair will take place from 9:30 AM until 5:00 PM on Friday and 9:30-3:30 on Saturday during the conference. The ballroom of the Michigan League will be the host to the expected 50-60 companies and universities that will attend the fair. Conference rooms will be reserved to host interviews. Several considerations need to be made, including the budget, logistics, and planning of the event.

The budget for the fair will be provided by a payment from each attendee of the career fair. A fee of approximately \$200 will be charged to each company; however, this fee will be waived if the company provides a sponsorship for the conference. Universities will not be charged a fee to participate in the fair. The fee and other money collected will be used to provide costs for the various logistical activities and services, including reserving the ballroom and conference rooms for interviews for the two day events, renting tables and chairs, and providing lunch and snacks for the recruiters. These expenses are roughly budgeted in the table below.

Tables and chairs will be set up in the ballroom of the Michigan League. An additional table will be used to provide snacks during the day for the recruiters. Additionally, two lunches per company will be provided each day, with extra lunches available on request. Setup for the fair will take the morning before the event, and will require 10-20 student volunteers. Volunteers will also be needed during cleanup on Saturday after the event ends. Companies will be allowed to ship their displays to the NERS department prior to the event, and the packages will be delivered the morning of the fair during setup. A pickup for return shipping will be scheduled at the end of the fair on Saturday.

Planning of the event will mainly consist of securing the reservations of the rooms in the Michigan League and acquiring a diverse set of companies, research labs and universities to fully represent the nuclear community. To accomplish this second task, contacts from many different sectors of the nuclear community will be contacted over the summer. This contact list will be put together from existing contacts known to the department, as well as through contacting past ANS student conferences to request the contact information for past attendees.

*Career Fair Expense Budget*

Item	Allotted Budget
Ballroom Reservation	\$648
Conference Room Reservations	\$180
Hospitality and Lunches	\$2500
Table and Chair Rentals	\$700

### 3.8. Outreach

#### 3.8.1. Young Scholars Program

In an attempt to maintain the workforce needed for Michigan's energy infrastructure several high school/community college programs have been formed to train students in energy technologies. The Young Scholars Program is designed to encourage these younger students to pursue the nuclear sciences and become members of ANS. All participants in the Young Scholars program will be required to become student ANS members. The membership fee will

be requested from Cook Nuclear Power Plant as they are sponsors of many of the existing nuclear technology programs. In order to participate in the Young Scholars Program, interested students will submit a brief application describing their interest in nuclear technology and what they expect to get out of attending the conference. Young Scholars Program participants will receive registration to all daytime conference events free of charge (they will not attend the dinners or evening socials). During the mentoring lunch, interested conference participants will be paired with participants in the Young Scholars Program.

### 3.8.2. Teachers Workshop

Friday morning a teachers' workshop will be offered for high school and general science teachers to be organized by the Michigan ANS section. The Michigan ANS section has been very successful in hosting teachers' workshops in the past. Co-locating the teachers workshop with the conference gives the teachers the opportunity to attend the career fair to learn about opportunities available to their students.

### 3.8.3. Public Forum

Saturday afternoon a public forum will be held in the Rackham Graduate School Auditorium. This forum will be advertised to the public through the events section in the local newspaper as well as notification to local schools and on-campus publicity. The forum will begin with a panel of speakers addressing topics of importance to the public with regards to nuclear energy such as safety, waste management, comparison to renewable energies, licensing procedures, etc. The floor will then be opened for questions by the public and conference attendees. Speakers planned for the public forum include Dr. James J. Duderstadt, Anthony Earley Jr. (Chairman and CEO DTE Energy), Dr. Gary Was (Director of the Michigan Memorial Phoenix Energy Institute) and a representative from the Nuclear Regulatory Commission.

## 3.9. Mentoring Lunch

The mentoring lunch Saturday afternoon will provide an opportunity for students to interact more personally with professionals in the fields the students are considering. On the registration form, undergraduates will also be able to elect for a graduate student mentor if they are considering graduate school. Graduate students will have the option to be both a mentor to an undergraduate and a mentee to a professional. Mentor/mentee pairings will be made prior to the conference by the mentor program committee. Attendees may also elect to mentor a Young Scholars Program participant. Extra space will be reserved to accommodate for attendance of students that did not originally request a mentor.

## 3.10. University Conference Facilities

The nuclear engineering department at the University of Michigan has been established for over 50 years, and many of the historic buildings on campus were established decades earlier. The campus buildings selected to host this conference all have historical significance and offer all necessary equipment and space to hold a successful conference. Several conference events including the career fair, technical and non-technical sessions will be held at the Rackham School of Graduate Studies and the Michigan League. Both facilities offer conference rooms of varying capacities as well as audiovisual equipment. The League is located across the street from Rackham which enables easy access to all sessions. The elegant Michigan Union Ballroom



at the heart of central campus has been chosen as the site for the Friday night social. The Union also offers catering services at reasonable rates and audiovisual equipment is available. Please see Appendix F for detailed information about room capacities and rates for each of these buildings.

### 3.10.1. Rackham School of Graduate Studies



The Rackham School of Graduate Studies building was established in June of 1938. It is frequently used to host conferences, and can be rented by student organizations at no cost. Room capacities range from 50-1,100, and are equipped with audiovisual equipment. The following agenda items will be held at Rackham.

- Panel discussions
- Non-technical sessions on Friday and Saturday
- Poster session
- Public forum

### 3.10.2. The Michigan League



The Michigan League was established in 1929 and originally served as a center for campus women as a complement to the men's Michigan Union. It is frequently used for meetings and conferences and is conveniently located across the street from the Rackham School of Graduate Studies. The conference room capacities range from 50-150, and a Ballroom with a maximum capacity of 500 is also available. Audiovisual equipment is available to rent on a daily basis at a rate of \$87 per data projector and \$9 per projection screen. Conference room rental rates do not exceed \$20 per hour. In addition to the conference facilities, the Michigan League also provides highly desirable hotel facilities. The following agenda items will be held at the League.

- Technical sessions on Friday and Saturday
- Lodging for judges and guest speakers
- Judge's breakfast
- Career fair
- Interviews
- Student sections committee meeting

### 3.10.3. The Michigan Union



The Michigan Union is well known as the original site of John F. Kennedy's announcement of his Peace Corps vision. The Union was established in 1919 as a center for University men, and now its facilities are used to host a wide variety of campus events. The Union is located in the heart of central campus and its elegant ballroom provides an excellent location for the Friday night mixer. The ballroom is available for rent at a rate of only \$48.00 per hour and can

accommodate up to 600 people. Catering services are available on site with dinner prices averaging \$30 per plate.

#### 3.10.4. Computer Labs



The College of Engineering has 18 computer laboratories on campus that are maintained by the Computer Aided Engineering Network (CAEN). These labs are equipped with high-performance desktop computers that offer an extensive array of software for engineering design and analysis. These laboratories are well suited to host workshops, and 10 of the labs are equipped with projectors for instructional computer demonstrations. The laboratory capacities range in size, and can accommodate groups as large as 61 individuals. These lab environments are complemented by high-performance computing clusters maintained jointly by CAEN and the Center for Advanced Computing (CAC).

#### 3.11. Travel, Transit, & Accommodations

The Travel & Accommodations committee has considered over 25 hotels in Ann Arbor. Based on quality of facilities, location, and price, we have selected a cluster of hotels right next door to one another located just off I-94 by the Briarwood mall. This location makes transportation from the airport simple. The Four Point Sheraton includes a large restaurant/bar/dance hall and 4600 ft<sup>2</sup> banquet hall, which will host the welcome reception Thursday night.

The hotels are all very close to each other and the Briarwood mall (map attached). There are various restaurants and dining options in the area including Olive Garden, Bennigans, Mediterrano, Cottage Inn Pizza, Olga's Pizza Kitchen, Sbarro's, Arby's, Bob Evans, any many more all within half mile. The Ann Arbor busses stop at the mall and by the hotels. We will be providing shuttles from these hotels to campus as well.

### **Four Points by Sheraton**

3200 Boardwalk, Ann Arbor, MI  
(734)-996-0600



- \$95 per night (conference rate)
- Restaurant and Bar
- Indoor/Outdoor Pool
- Gym and Fitness center
- Complementary Wireless

### **Holiday Inn**

3155 Boardwalk, Ann Arbor MI  
(734)-213-1900



- \$ 120
- Restaurant and Bar
- Swimming Pool
- Gym
- Complementary wireless Internet

### **Hampton Inn**

925 Victors Way  
(734)-665-5000



- \$100 per night
- Free Breakfast
- Restaurant and Bar
- Pool and gym
- Coin Laundry

### **Courtyard Marriot**

3205 Ann Arbor, MI  
(734)-995-5900



- \$ 140 per night
- Restaurant and Bar
- Pool Gym and spa
- Swimming Pool
- Complementary wireless



### **Fairfield Inn by Marriott**

3285 Boardwalk, Ann Arbor, MI  
(734)-995-5200



- \$98 per night
- Free Breakfast
- Complementary wireless
- Indoor Pool

### **Kensington court**

610 Hilton Blvd, Ann Arbor, MI  
800-344-7829



- \$115 per night
- Swimming pool & gym
- Complementary wireless
- Restaurant and Bar



- 1 Courtyard by Marriott
- 2 Holiday Inn
- 3 Kensington Court
- 4 Hampton Inn
- 5 Fairfield Inn by Marriott
- 6 Four Point by Sheraton

Judges and featured guests will be encouraged to stay at the Michigan League, Bell Tower Hotel or one of the smaller luxury hotels across the street from the conference facilities.

#### **3.11.1. Shuttle Buses**

To assure that attendees have no difficulty traveling between their hotel and the conference facilities, we will have UM buses chartered for continuous transportation door-to-door. Buses will run loops all day, with heightened service in the morning and evening. We have cleared the idea with UM Transportation Services. We have estimated that we need 120 bus-hours, including airport shuttle service during peak arrival hours, as many as five buses during peak transits, and a late-night shuttle between the hotel and central campus/Main St. This service will

provide invaluable convenience, freedom, and peace of mind for our guests. Below is a table of the times shuttles will be running:

<b>Day/Time</b>	<b>Route</b>	<b># Buses</b>
Thursday 10a-6p	Hotel/Campus	1
Thursday 2p-5p	Hotel/Airport	1
Friday 8a-6:30p	Hotel/Campus	3
Friday 8p-Midnight	Hotel/Campus	1
Saturday 8a-6p	Hotel/Campus	3
Saturday 6-10p	Hotel/Riverboat	5
Saturday 10p-1:30a	Hotel/Downtown	1
Sunday 8a-4:30p	Hotel/Offsite Tour	2
Sunday 9a-Noon	Hotel/Airport	1

Shuttles will run not only during session hours, but also in the evenings and late-night so that guests can explore the beautiful UM campus and safe streets of Ann Arbor. Other transportation options are the [AATA](#) bus routes 6 and 36 which run between downtown and the hotel cluster as late as 10:45PM, and Ann Arbor's subsidized late-night taxi service runs all night. Maps of campus and Ann Arbor will be distributed in registration packets and are already posted on our website.

We will provide additional transportation freedom to our judges and featured guests by offering chauffeur service throughout the day Thursday through Saturday. In order to do so, we will rent university vehicles and have a student driver on call during the daytime. The university provides sedans and minivans for \$35 per day or less.

### *3.11.2. Travel*

Our hotel cluster is 30 minutes away from Detroit Metro Airport (DTW). DTW is the hub of Northwest Airlines. This ensures that the conference attendees will have many flight options from any location at competitive prices. We have generated a list of airfare estimates (Appendix F) for many of the departments we expect to attend. The average ticket price is estimated to be \$291, based on prices found online for April 2-5, 2009. These prices are summarized in Appendix G. The Greyhound bus station is half a mile from the conference facilities, as is the Amtrak station.

We will provide a complimentary shuttle to/from the airport (using UM charter buses) from 2PM to 5PM Thursday and 9AM to 12PM Sunday. These hours will be posted on our website as a suggestion for arrival time. We will collect flight arrival information on the registration form (see Appendix G) and adjust the shuttling times if needed. The [Ann Arbor Airport Shuttle \(AAAS\)](#) is another excellent option for transportation between Detroit Metro Airport and Ann Arbor. The shuttle is based in Ann Arbor, so drivers are familiar with the area. It is very affordable: four passengers can reserve a round trip for \$28 each, whereas a taxi would cost over \$100 round trip. The vans will seat 7 passengers and run regularly between Ann Arbor and the airport exclusively. Our website provides AAAS information for those individuals who would like to book their own.

### 3.12. Finance: Income and Expenditures

#### Conference Budget

The total budget of \$150,000 for the 2010 ANS Student Conference is summarized in Section 3.12.4. Section 3.12.5 provides an estimate of income sources. The difference between the estimated income and expenses is intentional so as to leave a buffer for unforeseen expenses. The budget is broken down by day, and additional expenses are listed at the bottom of the table. Please note that the costs of the following events are either free or will be covered by corporate sponsors:

- Events held in Rackham are free of charge
- Box lunches on Friday and Saturday (corporate sponsors)

#### *3.12.1. Facility fees*

The technical and non-technical sessions will be held at the Rackham School of Graduate Studies and the Michigan League, which are conveniently located across the street from one another. Conference style rooms in the Rackham building and AV equipment will be rented free of charge. Rooms in the Michigan League with capacities of over 100 will be rented at a rate of approximately \$20 per hour. AV equipment is available at the Michigan League at a rate of \$96 per day per set of equipment.

The MCNP workshop will be held in a campus computer lab with a usage fee of \$300. The Career Fair will be held on Friday and Saturday in the Ballroom of the Michigan League at a total cost of \$628. Four additional small meeting rooms will be reserved for interviews at a total rate of \$180 per day. The Teachers Workshop will also be held in a conference room at the Michigan League at a cost of \$120. The mixer on Friday evening will be held at the Michigan Union with a facilities fee of \$360.

***Total facilities fees: \$10,198***

#### *3.12.2. Meals*

All meals from dinner on Thursday through breakfast on Sunday will be provided to conference participants free of charge. We anticipate a total student attendance of 400 with 300 students arriving prior to the Welcome Reception on Thursday, and the remainder arriving on Friday. Fifty additional conference volunteers and 100 corporate sponsors are also expected to attend conference meals, for a total of 550 conference participants. Students participating in the young scholars program will only be invited to day time events.

Breakfast is provided at 2 of the 3 conference hotels free of charge. An additional free continental breakfast including bagels, donuts, and beverages will be provided at the Rackham building on Friday and Saturday morning at a cost of \$560 per day. Box lunches will be provided on Friday and Saturday by corporate sponsors in exchange for the attention of a large audience.

The Welcome Reception on Thursday evening will be held at the Four Points Sheraton and will include a full sit-down dinner with choice of three entrees including a vegetarian option at a total cost of \$10,584 (estimated 350 attendees).

Dinner Friday night will be held at the Michigan Union Ballroom, located just two blocks from the Michigan League. The menu will include Caesar salad and choice of entrée including Chipotle Chicken, Char-grilled Pork Chop, Tilapia with Citrus Bagna Cauda, and Stuffed Portobello Mushroom for \$24.80 per person including tax, and service fee for a total of \$9,920. Alternatively, this dinner could be downgraded to catered sandwiches and platters for \$12-15 per person. This would be an easy way to offset the expense of the awards banquet if necessary. The mixer will follow dinner, with beer and wine provided by Michigan Union catering. An estimate of the budget for the mixer is \$4,960 by estimating that half the attendees take one drink and the other half drink 4 drinks. This includes tax and service charges. The host bar will be shut down one hour prior to close to encourage attendees to prepare for the next day of sessions.

***Total meal cost: \$45,634***

### 3.12.3. Transportation

UM buses will be chartered for continuous door-to-door transportation for our conference UM buses will be chartered for continuous door-to-door transportation for our conference participants. We will need this service for a total of 120 hours during the conference for a total cost of \$7,560. We will also provide a complimentary chauffer service to our judges and featured speakers. Using university vehicles and student drivers, this service will cost \$105.

***Total transportation cost: \$7,665***

### *Additional expenses*

- (1) The ANS conference participants will require information packets to guide them through the conference activities. These information packets will include the conference program, facility maps to locate conference rooms, important phone numbers, and suggested entertainment venues. The printing expenses are estimated to be \$1,550.
- (2) We are allocating \$625 for internet access, which would allow up to 250 conference participants to use the internet free of charge.
- (3) Conference advertising is essential to a successful conference and we are therefore allocating \$5,000 which will be used for advertising in Nuclear News as well as sending out mass mailings to nuclear engineering students.
- (4) We will be handing out student gift bags at the conference which will include a T-shirt and a memorabilia item which will cost a total of \$5,000.
- (5) We will be giving the invited speakers gifts of engraved laser pointers, which will cost \$200.
- (6) Outstanding presentation awards valued at \$150 apiece will be given to 32 student presenters at the Awards Banquet on Saturday evening.

***Total additional expenses: \$17,175***



### 3.12.4. Table of Conference Expenditures

Event	Description of costs	Cost breakdown	Cost
<b>Thursday</b>			
MCNP Workshop	Facility fee	---	\$300
Welcome Reception	*Food	350 x \$30.24	\$10,584
<b>Friday</b>			
Breakfast	*Food	200 x \$2.80	\$560
Technical Sessions	Facility fee	---	\$360
	Projector	2 x \$87	\$174
	Projection screen	2 x \$9	\$18
Career Fair & Interviews	Facility fee (career fair)	---	\$360
	Facility fee (interview rooms)	---	\$180
	*Hospitality and Lunches	---	\$1,250
	Table and Chair Rentals	---	\$350
Teachers Workshop	Facility fee	---	\$120
Judges' Lunches	*Food	20 x \$20	\$400
Dinner (Michigan Union)	*Food	400 x 24.80	\$9,920
	microphone and sound system	---	\$36
Mixer (Michigan Union)	Facility fee	---	\$360
	*Beverages	200 x \$4.96 + 200 x 19.84	\$4,960
<b>Saturday</b>			
Breakfast	*Food	200 x \$2.80	\$560
Technical Sessions	Facility fee	---	\$360
	Projector	2 x \$87	\$174
	Projection screen	2 x \$9	\$18
Career Fair & Interviews	Facility fee (career fair)	---	\$288
	Facility fee (interview rooms)	---	\$180
	*Hospitality and Lunches	---	\$1,250
	Table and Chair Rentals	---	\$350
Judges' Lunches	*Food	20 x \$20	\$400
Awards Banquet (Detroit Princess Riverboat)	*Food and Venue	500 x \$45	\$22,500
	Outstanding presentation award	32 x \$150	\$4,800
<b>Additional Expenses</b>			
Transportation	Bus rental for students	120 hr x \$63/hr	\$7,560
	Chauffer service for judges and speakers	3 days x \$35/day	\$105
Information pamphlets	Printing fees	250 x \$5 + \$300 for signs	\$1,550
Advertising	mass mailing and advertising in Nuclear News	---	\$5,000
Student gifts	T-shirts	400 x \$5	\$2,000
	Memorabilia item	400 x \$7.50	\$3,000
Speaker gifts	Engraved laser pointers	4 x \$50	\$200
Internet access	internet usage fee	250 x \$2.50	\$625
Student reimbursement	average student reimbursement	400 x 170	\$68,000
<b>Total Cost</b>			<b>\$148,852</b>

\*Food and beverage costs include tax, gratuity, and tip

### 3.12.5. Table of Income Sources

		<b>Contribution</b>		<b>Number Expected</b>	<b>Total</b>
<b>Registration</b>	Student	\$25.00	per registrant	400	\$10,000.00
	Professional	\$225.00	per registrant	100	\$22,500.00
<b>Corporate Sponsorship</b>	Tier 1	\$15,000.00	per sponsor	2	\$30,000.00
	Tier 2	\$10,000.00	per sponsor	3	\$30,000.00
	Tier 3	\$5,000.00	per sponsor	5	\$25,000.00
	Tier 4	\$2,500.00	per sponsor	5	\$12,500.00
	Tier 5	\$1,000.00	per sponsor	5	\$5,000.00
	Tier 6	\$500.00	per sponsor	6	\$3,000.00
<b>ANS Sponsorship</b>	Michigan	\$2,500.00	per sponsor	1	\$2,500.00
	National	\$2,500.00	per sponsor	1	\$2,500.00
<b>University Sponsorship</b>	NERS Department	\$3,000.00	per sponsor	1	\$3,000.00
	Rackham Graduate School	\$2,000.00	per sponsor	1	\$2,000.00
	Michigan Student Assembly	\$2,000.00	per sponsor	1	\$2,000.00
	College of Engineering	\$2,000.00	per sponsor	1	\$2,000.00

<b>Total Revenue</b>	<b>\$152,000.00</b>
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\*The career fair is not represented here as it is designed to be cost neutral

### 3.12.6. Sponsorship

The proposed conference budget includes expected revenue from sponsorships based on contributions to recent student conferences. Fundraising revenue estimates are conservative when compared to the amounts of money raised for the 2008 ANS Student Conference. The conference committee has spoken with school administration and expects financial support from several sources within the University of Michigan. The university funds can be acquired immediately upon being awarded the conference providing the funds necessary to make immediate facility reservations, print materials for fundraising documents and send committee members to the June ANS conference. The university's Corporate Relations Office provides a means of recruiting sponsors among numerous nuclear vending and operating companies. Sponsors will be granted career fair space and advertising space according to the amount of sponsorship provided. Furthermore, the conference committee will seek sponsors of individual events including meals and social events.

### 3.12.7. Individual Cost Estimates

Our meal, transportation, accommodation, and reimbursement considerations have minimized the costs to conference participants. Student expenses will be limited to a \$25 registration fee, hotel room fees, and airfare. In total, students should expect to pay \$421 for participation in the conference as indicated in the table below. It is estimated that we will have \$68,000 available for student travel reimbursements providing an average of \$170 per student to help offset the cost of attending the conference. If additional funds are available these will be distributed to attendees to minimize the expense of attending the conference.

**Table: Predicted Average Cost to a Student**

Description	Cost to student
Registration fee	\$25
Airfare	\$291
Lodging	\$142.50*
Reimbursement	-\$170
<b>Total</b>	<b>\$288.50*</b>

*\*This assumes double occupancy in the Four Points by Sheraton for 3 nights*

### 3.13. Publicity

Good publicity is the key to a successful conference. The Publicity Committee will be in charge of all of the design and publication material for the conference, including posters, brochures, banners, information booklet, T-Shirts and any other media forms. The Committee is responsible for informing the nuclear community about the upcoming conference. The main objective of this committee will be informing industry, interested students, academic institutions, national laboratories, and government bodies of the upcoming conference. This committee is vital in assuring that participation level is at the maximum. This will be done by publishing articles and announcements in nuclear publications (i.e. Nuclear News), local newspapers (for public forum), writing student sections to pique student interest, sending announcement posters to all participating universities, and writing to industry about the upcoming opportunities.

The Publicity Committee will work closely with the Fundraising Committee to obtain sponsorship for advertising space in the different publications. These include sponsor logos printed on the announcement posters and advertisement sections within the conference booklet. The Publicity Committee will work with the Outreach Committee to invite local high schools and publicize the public forum. They will also work with the General Chair to prepare the prospectus for distribution at the national ANS conferences in June and November.

#### 3.13.1. Website

The conference website will be one of the most important links between the UM chapter and conference attendees. The website will be hosted on our ANS chapter website. The webmaster of our chapter has experience with form handling for our online registration and multiple members of the committee have the skills to maintain and update the site. The committee has already begun constructing site pages including a page with driving directions, travel information, hotel information, itineraries, bus routes, shuttle schedules, conference schedule, and food/entertainment suggestions.

Registration for the conference will be handled via our secure registration form, and payment will be transferred using PayPal. The registration form is already constructed and includes all necessary attendee information as well as options and preferences such as food choices, internet access, and tours.

A preview of the website and registration form is provided in Appendix G as well as online at: <http://www.engin.umich.edu/soc/ans/proposal/>

### 3.14. Ann Arbor Sights and Attractions

Ann Arbor has had a history of over two centuries of art, music, literature and science. It is a city of contrast and many colors. We hope the students will be mesmerized by the colors of Ann Arbor during spring.

#### 3.14.1. Cultural Attractions

The University of Michigan prides itself on the diversity of its student body, and as a result, there is no shortage of cultural attractions on campus. During their free time, students attending the conference will have the opportunity to enjoy a wide variety of university-run museums, such as:

- Museum of Art
- Exhibit Museum of Natural History
- Kelsey Museum of Archaeology
- Museum of Anthropology
- Museum of Paleontology
- Museum of Zoology

For those who enjoy the outdoors, the University of Michigan and the city of Ann Arbor have literally hundreds of parks. One of the most popular for University of Michigan students is Nichols Arboretum, a sprawling natural area that is perfect for hiking.

The University Musical Society (UMS) is an organization that brings world-class orchestras, recitalists, dance ensembles, and world music performers to the university as frequently as three or four times per week. Many events are free, and they are all guaranteed to be entertaining.

Several student organizations put on performances each week, and our visitors are invited to attend whichever events interest them. The University of Michigan student body contains world-renowned musical performers, award-winning a capella groups, comedy and theatre troupes, and much more.

Additional sight-seeing options in the area include some of the best professional sports teams in the country, the Ann Arbor Hands-On Science Museum, UM theatre & dance, annual Mother Earth Pow Wow, dozens of parks along the Huron River, and the Matthei Botanical Gardens.



**University of Michigan Museum of Art**

### 3.14.2. *Nightlife*

Those who attend a conference at the University of Michigan will have the chance to take in the wonderful nightlife of Ann Arbor. The city is home to restaurants that serve every style of cuisine that one can think of, and great food in any price range. For a night out on the campus, the South University and State Street areas contain dozens of bars and restaurants filled with University of Michigan students. There are two historic movie theatres in the State Street area that shows independent films every night for a low admission price, and a popular arcade is located on South University. Central Campus and the streets of Ann Arbor have a safe, fun-loving atmosphere, with free/cheap transportation options even late. The Central Campus is intertwined with the city of Ann Arbor, so no matter where students are, entertainment is a block away, at most.

Located within five blocks of the University of Michigan Central Campus is the downtown area, which is another hub of Ann Arbor nightlife. Some of the more popular downtown locations include:

- Rock venues that host up-and-coming bands
- Jazz & martini bars
- Irish pubs & pool halls
- Wine bars & cigar lounges
- Comedy venues
- Dance clubs



The Ann Arbor area promises to provide a fun experience for the attendees of the conference while giving our visitors a real-life taste of student life at the University of Michigan.

Attendees will be provided with maps, bus routes, late night transportation options, and a detailed list of venues & activities of interest. This information is already located on our website.

### 3.15. Awards Banquet



The awards banquet and mixer will be held on the Detroit Princess Riverboat. The Riverboat cruises between Detroit and Windsor, Canada and is the second largest dinner boat in the country. The scenery with the city lights is spectacular. This will be the ideal location for the Mixer and Awards Ceremony for commending the conference participants for their hard work. The banquet will be a semi-formal affair, with a keynote speaker to address the attendees. After the food is served and the speech is delivered, awards will be given out to the students with the most outstanding papers of the conference. The detailed price quote for the awards banquet is provided in Appendix H.



## APPENDIX A: Proposal Committee Members



**General Chair - Logistics:** Michaela Eddy has been an active member of ANS since 2003 including serving on the PWANS committee and acting as the liaison from ANS to Women in Nuclear and was the 2007-2008 vice-president of the University of Michigan student section. In addition to ANS activities, Michaela has been on the planning committees planning for several large events on campus including the Engineering Graduate Symposium (~200 people), Engineering Departmental Visits (~130 people) and a GNEP workshop (~60 people). Michaela also has experience coordinating the efforts of 300 volunteers for the Alpha Gamma Sigma Honor Society.



**General Chair – External Relations:** Travis Trahan is a first year PhD student studying numerical methods for modeling neutron transport. Travis has been an active member of the American Nuclear Society since 2005. While an undergraduate at Texas A&M University, he served as vice-president of the American Nuclear Society for one year and as vice-president of Alpha Nu Sigma for two years. In addition to ANS activities, Travis has held leadership positions in his dorm hall council and Aggie Student Bonfire. This year, Travis is helping organize nuclear engineering graduate student recruiting events at the University of Michigan. As an undergraduate, Travis served on the conference committee for the 2008 ANS Student Conference at Texas A&M University.



**Publicity Chair:** Chris McGuffey is a third year Ph.D. student, focusing on fusion/plasmas. He managed the Travel and Accommodations segment on UM's 2009 and 2009 Student Conference bids and has experience hosting a student conference with over 900 attendees. Chris has constructed web pages for ten years and has been the webmaster for two student organizations.



**Sessions Chair:** Anne Campbell is a third year Ph.D. candidate studying radiation effects on materials. She assisted with the previous proposal submissions. Anne has been an active member of ANS for six years, and was Vice President and President of the Purdue University chapter while an undergraduate student. She has also been very active with Alpha Nu Sigma chapters at Purdue University and University of Michigan and is the current president of the Michigan chapter. She previously attended and presented at the ANS student conference hosted by Ohio State University. Anne was co-chair for the University of Michigan NERS@50 student poster session.



**Hospitality Chair:** Robyn Spink is a third year undergraduate student, focusing on nuclear power. She helped with the events and accommodations segments on the University of Michigan's 2009 Student Conference bid and plans to attend the National conference at the University of Florida in April 2009. Robyn is currently the president of another student organization and is very actively involved in several more organizations.



**Activities Chair:** Mahima Gupta is a third year Undergraduate student. She is helping plan the activities for the ANS conference at the University of Michigan 2010. She plans to attend the ANS conference in April, 2009 and the Health Physics Society National conference in July, 2009. Mahima is the Chair of the North Campus Affairs Commission of the Michigan Student Assembly, and CEO of the North Campus Mini Golf course and member of the ANS Michigan chapter.





**Career Fair Director:** Yvan Boucher is a first year graduate student in the radiation measurements group. Yvan attended the University of Michigan as an undergraduate, and has stayed heavily involved with many of the organizations into his graduate career, including ANS, Alpha Nu Sigma (Nuclear Engineering Honor's Society), and Tau Beta Pi, the Engineering Honor's Society. Through his participation in Tau Beta Pi, Yvan has worked to put together the 2007 and 2008 Fall Engineering Career Fairs as the Director of Logistics; each of these fairs had over 250 companies participate. He is also in charge of the organization of the entire 2009 Fall Engineering Career Fair as part of a 4 person team that oversees all of the sub-committee directors. Yvan will bring the skills and lessons he has learned from these past experiences to the operation of the career fair during the 2010 ANS Student Conference.



**Public Forum Director:** Janelle Penisten is a second-year Ph.D. student in nuclear engineering. She has been an active member of ANS since 2001, and has served as President of the University of Michigan Student Section, Treasurer of the Piedmont Carolinas Local Section, and as a member of the ANS Student Sections Committee, Membership Committee, and Development Committee. Janelle also has large scale planning experience, having co-chaired UM's Cancer Awareness Week, which is a nine-event fundraiser for cancer research charities.



**Workshop Director:** Seth Johnson, a second-year Ph.D. student, studies and develops particle transport methods. Before his move to the frigid north, he graduated with a B.S. in nuclear engineering from Texas A&M University. As the vice-president of the student section of the American Nuclear Society during his last year there, he coordinated recruiter visits and revamped the web site. An active member of Tau Beta Pi, Seth has a passion for learning, teaching, serving, and leading.



**Catering Director:** Elaine West is a fourth year nuclear engineering PhD student at the University of Michigan. She has been an active member of the ANS Michigan section for 6 years. She has also been a member of the Michigan section of the Alpha Nu Sigma National Honors Society for 6 years, and has held the office of treasurer and secretary. Elaine enjoys volunteering for recruiting activities. She has volunteered for the College of Engineering Tech Day activities where she has interacted with high school students to educate them about the opportunities they would have as engineering students at the University of Michigan. Elaine also participates in the nuclear engineering graduate student recruiting events and enjoys telling the prospective students about all that Ann Arbor has to offer.



**Volunteer Coordinator:** AJ Hunter is a 4<sup>th</sup> year undergraduate student, studying nuclear power. He is currently the president of the University of Michigan chapter of ANS. Aside from this, AJ helps teach under-represented children through DAPCEP, raises money for Mott's Children's Hospital through UMDM, and captains multiple IM Sports teams. AJ will be in charge of organizing and coordinating all of the volunteers at the conference. He also enjoys long rides on mules named Merlin.



**Tour Director:** Adam Hoffman is a first year PhD student in nuclear engineering studying radiation transport and nuclear fuel cycles. Adam has been a member of national and local chapters of ANS for six years, as well as Alpha Nu Sigma for four years. Adam has held leadership positions in other student organizations and was an assistant scoutmaster while an undergrad. Adam attended the ANS National Conference in Reno last fall.

## **APPENDIX B: Letters of Support**



UNIVERSITY OF MICHIGAN  
COLLEGE OF ENGINEERING  
NUCLEAR ENGINEERING AND RADIOLOGICAL SCIENCES

1906 COOLEY BUILDING  
2355 BONISTEEL BOULEVARD  
ANN ARBOR, MICHIGAN 48106-2104  
734 764-4260 FAX 734 763-4540  
<http://www.nersengin.umich.edu>

February 23, 2009

Student Sections Committee  
American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, Illinois 60526

To Whom it May Concern:

The Department of Nuclear Engineering and Radiological Sciences in the University of Michigan's College of Engineering welcomes the opportunity to host the 2010 American Nuclear Society Student Conference. Hosting the ANS student conference will demonstrate our commitment to the greater nuclear community and will bring a large number of enthusiastic students to our campus. By hosting the student conference, our students will be given the chance to demonstrate their leadership skills, organizational talents, and commitment and dedication to their profession. Furthermore, we will have the opportunity to host representatives from the nuclear industry and bring them into contact with our undergraduate and graduate students as well as students from other schools. I believe hosting such an event will greatly benefit our department as a whole.

For these reasons, the Department strongly supports the University of Michigan student chapter of the American Nuclear Society and their goal of hosting the 2010 ANS Student Conference.

If I can provide any additional information, please do not hesitate to contact me.

With my regards,

*Bill Martin*

DAVID C. MUNSON, JR.  
ROBERT J. VLASIC DEAN OF ENGINEERING  
PROFESSOR OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE



ROBERT H. LURIE ENGINEERING CENTER  
1221 BEAL AVENUE  
ANN ARBOR, MICHIGAN 48109-2102  
734 647-7010 FAX 734 647-7009  
munson@umich.edu

February 23, 2009

Student Sections Committee  
American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, IL 60526

Dear Student Sections Committee:

The University of Michigan College of Engineering welcomes the opportunity to host an American Nuclear Society Student Conference. We believe that the attendance of students from a variety of engineering schools will help bolster our reputation and ensure future interest in our College. This conference will not only demonstrate our high-caliber research facilities, but the work ethic and dedication of our students. It is important that we maintain our tradition of excellence by continuing to serve the greater academic community and strengthening our ties to industry.

We pledge our support to the University of Michigan American Nuclear Society and their goal of hosting the 2010 student conference.

Sincerely,

A handwritten signature in cursive script that reads 'David C. Munson Jr.'.

David C. Munson, Jr.

DCM/mas

## APPENDIX C: Conference Planning Milestones

	<b>Task</b>	<b>Responsible Party</b>
Mar-09	Create conference bank account	Finance Chair
	Obtain tax ID	Finance Chair
	Block Hotel Rooms	Hospitality Chair
	Reserve Conference and Event Space	Sessions/Activities
	Form Committees	Chairs
Apr-09	Registration information posted on website, Online registration preparation	Website Director
	Formally Invite Proposed Speakers	General Chair (Log)
	Contact Sponsors from Previous Years	General Chair (Ext)
May-09	Research and contact additional sponsors	General Chair (Ext)
	Update budget to account for pledged funding	Finance Chair
	Prepare Prospectus	General Chairs
Jun-09	Send delegation to ANS meeting to promote conference and solicit funds	General Chair (Ext)
	Begin career fair invitations	Career Fair Director
	Continue funding solicitations	General Chair (Ext)
Jul-09	Invite potential judges	Sessions Chair
Aug-09	Finalize shuttle bus schedules and route	Hospitality Chair
	Reserve shuttle buses	Hospitality Chair
Sep-09	Finalize abstract submission categories	Sessions Chair
	Progress Report to SSC	General Chair (Log)
Oct-09	Request outreach materials, lanyards and nametags from National ANS	Outreach Chair
	Design T-Shirt	Activities Chair
	Determine awards for presentations	Sessions Chair
	Notify local high schools	Outreach Chair
Nov-09	On-line Registration and abstract submission available	Website Director
	Abstract Review and notification	Sessions Chair
Dec-09	Determine and book entertainment for mixer	Activities Chair
	Abstract Review and notification	Sessions Chair
	Notify science departments at nearby universities of the conference	Outreach Chair
Jan-10	Abstract Review and notification	Sessions Chair
	Preliminary program available online	Website Director
	Create judging criteria for presentations	Sessions Chair
	Finalize menus for meals	Catering Director
	Finalize arrangements for Cook power plant and NSCL tours	Tour Director
	Progress Report to SSC	General Chair (Log)
Feb-10	Assignment of rooms for sessions	Sessions Chair

	Purchase supplies and memorabilia for gift bag	Activities Chair
	Begin mentor-mentee matching	Outreach Chair
	Begin publicizing Public Forum in events section of newspaper	Public Forum Dir.
Mar-10	On-line Registration and abstract submission deadline 4 weeks before	Website Director
	Final abstract review and notification	Sessions Chair
	Prepare and print conference program	General Chair (Ext)
	Confirm guest speakers	General Chair (Log)
	Create internet accounts	Website Director
	Request installation of MCNP code	Workshop Director
	Purchase Speaker Gifts	Sessions Chair
Conference Week	Confirm all reservations	General Chair (Log)
	Prepare gift bags	All
	Decorate facilities	All
	Confirm food delivery/catering plan	Catering Director
	Pick up rental vans for invited speakers courtesy shuttle	Hospitality Chair
Post-Conference	Balance the budget and reimburse any conference expenses	Finance Chair
	Determine student travel reimbursements and distribute	Finance Chair
	Submit financial report to ANS-HQ	Finance Chair
	Thank-you notes to presenters	General Chair (Log)
	Final Report to SSC	General Chair (Log)

## APPENDIX D: Spring Break Schedule of Potential Participants

# ANS Chapter Spring Breaks, March 2010

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
	North Carolina State					
7	8	9	10	11	12	13
	RPI, Penn State, University of Florida, Oregon State					
14	15	16	17	18	19	20
	Wisconsin, Iowa State, Georgia Tech, University of Minnesota, Texas A & M, Purdue, Kansas State *Also finals weeks for Ohio State and Oregon State*					
21	22	23	24	25	26	27
	US Mil. Acad., University of Illinois, MIT, UC Berkeley, Idaho State					
28	29	30	31 Notes: University of Michigan spring break is Feb. 23-27. Ann Arbor public schools spring break is Apr. 10-19. There are no university spring breaks in April.  The Proposed Conference Date is April 8 <sup>th</sup> -11 <sup>th</sup> with no conflicts			



## APPENDIX E: Facilities

Table A: Rooms available at Rackham School of Graduate Studies building

Room	Capacity	Cost	Audiovisual Equipment	Notes
Amphitheater	230	Free	yes	excellent room for panel discussions
Assembly hall	110	Free	yes	terrace access
East Conference Room	50	Free	yes	terrace access
West Conference Room	50	Free	yes	terrace access
Auditorium	1,100	Free	yes	terrace access

Table B: Rooms available at Michigan League

Room	Room size (sq. ft.)	Capacity	Hourly rate \$/hr	AV equipment	Notes
Underground	5492	200	22.00	*Yes	\$110.00 minimum, Saturday night events are charged a 50% premium
Room 4	546	---	7.40	*Yes	
Blagdon	289	---	9.60	*Yes	\$48.00 minimum
Room 2	228	---	4.60	*Yes	
Room 6	220	---	4.60	*Yes	
Garden	3240	150	20.00	*Yes	\$100.00 minimum
Michigan	1722	75	12.00	*Yes	\$60.00 minimum
Concourse	1722	---	10.40	*Yes	\$52.00 minimum, Saturday night events are charged a 50% premium
Vandenberg	1430	125	20.00	*Yes	\$100.00 minimum, Saturday night events are charged a 50% premium
Hussey	1430	125	20.00	*Yes	\$100.00 minimum, Saturday night events are charged a 50% premium
Kalamazoo	756	50	10.40	*Yes	\$52.00 minimum
Koessler	1638	80	12.00	*Yes	
Henderson	1107	100	12.00	*Yes	
Room D	784	50	7.40	*Yes	
Room C	364	---	5.80	*Yes	
Koessler	1638	---	4.60	*Yes	
Room B	247	---	4.60	*Yes	
Ballroom	5238	500	48.00	*Yes	\$240.00 minimum, Saturday night events are charged a 50% premium

*\*AV equipment is available at a cost of \$87 per projector and \$9 per projection screen per day*

Table C: Rooms available at the Michigan Union

Room	Room size (sq. ft.)	Capacity	Hourly rate (\$/hr)	AV equipment	Notes
Anderson ABCD	2508	200	25.20	*Yes	
Anderson CD	1518	120	18.90	*Yes	
Anderson ABC	1485	120	18.90	*Yes	
Anderson D	1023	80	12.60	*Yes	
Anderson A, B, or C	495	30	6.30	*Yes	
Bates	560	---	8.40	*Yes	
Blain	529	---	8.40	*Yes	minimum of \$42.00
Crofoot	360	---	6.30	*Yes	
Kuenzel	1512	120	21.00	*Yes	
Michigan	460	---	6.30	*Yes	
Opera Lounge	360	---	6.30	*Yes	Lounge furniture only
Patio	2914	---	25.20	*Yes	
Pond ABC	912	60	10.50	*Yes	
Pond A, B, or C	304	20	4.20	*Yes	
Sophia B. Jones	360	20	6.30	*Yes	
Tappan	702	---	8.40	*Yes	minimum of \$42.00
University Club	3780	200	25.20	*Yes	minimum of 126.00, Saturday night events are charged a 50% premium
Welker	616	---	8.40	*Yes	
Wolverine ABC	765	50	10.50	*Yes	
Wolverine A, B, or C	255	15	4.20	*Yes	
2105A	448	30	6.30	*Yes	
2105B	640	---	8.40	*Yes	
2105C	224	---	4.20	*Yes	
2105D	280	---	4.20	*Yes	
Parker	580	50	6.30	*Yes	
Pendleton	2640	200	25.20	*Yes	minimum of \$126.00, Saturday night events are charged a 50% premium
Ballroom	6325	600	48.00	*Yes	minimum of \$240.00, Saturday night events are charged a 50% premium

*\*AV equipment is available at a cost of \$87 per projector and \$9 per projection screen per day*

## APPENDIX F: Airfare Estimates

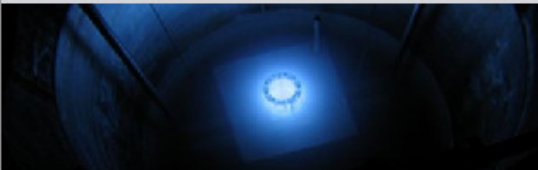
Airfare estimates from [www.expedia.com](http://www.expedia.com)

NCSU (RDU)	RPI (ALB)	Florida (GNV)	UMass (BOS)	UNLV (LAS)	PSU (MDT)	TAMU (CLL)	GT (ATL)	KSU (MCI)	USMA (LGA)	Tenn (TYS)	UWisc (MSN)	Utah (SLC)	OreSt (PDX)	UC (SFO)	IdahoSt (SLC)
\$255	\$246	\$403	\$332	\$306	\$355	\$344	\$246	\$252	\$194	\$325	\$373	\$216	\$327	\$262	\$216

## APPENDIX G: Website Snapshots

UM ANS STUDENT SECTION  
Umich American Nuclear Society Student Section

Home About Contact



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of all things nuclear.

Main Page

What's ... ?

Home

Travel to the Conference

First name:

Last name:

Badge name:

University:

Email address:

Phone number:

ANS National ID#:

Thursday meal

☐ Chicken

☐ Beef

☐ Fish

☐ Vegetarian

Friday meal

☐ Chicken

☐ Beef

☐ Fish

☐ Vegetarian

Saturday meal

☐ Chicken

☐ Beef

☐ Fish

☐ Vegetarian

I would like access to the internet on campus for an additional \$5:

☐

I would like to attend a tour of the D.C. Cook Nuclear Power Plant on Sunday for an additional \$5:

☐

I would like to attend tours of campus facilities:

☐

I am an UNDERGRAD and would like to be assigned a graduate student mentor:

☐

I am a GRAD STUDENT and would like to be assigned an undergraduate student mentor:

☐

I am a GRAD STUDENT and would like to be assigned a professional mentor:

☐

I am a PROFESSIONAL and would like to be assigned a graduate student mentor:

☐

Submit

Reset

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### Travel to the Conference

#### From Detroit Metro Airport (DTW):

25Mins, 24Miles, \$55 taxi,

\$30 AA Airport Shuttle (call in advance)

#### From Purdue:

4Hrs, 35Mins, 301Miles

#### From Columbus, OH:

3Hrs, 8Mins, 191Miles

#### From the West:

Take I-94E

Exit 177, State St

Keep left at fork, turn left on S State Street

Turn right on Boardwalk

Hotel on right

UIUC: 5Hrs, 29Mins

#### From the East:

Take I-90W across northern Ohio

Exit 64 onto I-75N

Split onto 475W

Take US-23N

Exit 35 onto I-94W

Exit 177, State St

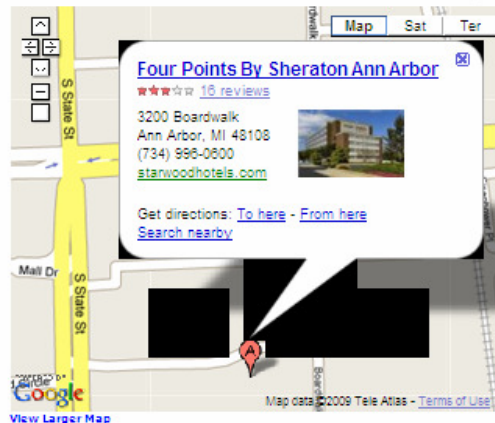
Turn right on S State St

Turn right on Boardwalk

Hotel on right

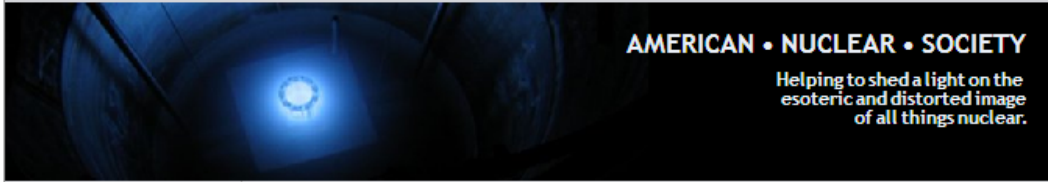
RPI: 9Hrs, 42Mins

PSU: 6Hrs, 24Mins



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### What to do in Ann Arbor

#### How to get around Ann Arbor

[Maps of Ann Arbor](#)

[Late night cabs](#)

[AATA Bus Routes](#) 36, 6, and 7 stop within 1 block from the hotels and serve the central campus, state street, and main street regions for \$1. These buses run as late as 11:00PM with even later service on Saturday night.

#### Points of Interest

**Downtown-** During the day, walk through the local community's [Kerrytown District](#) or the [AA Hands-On Museum](#).

**South University-** Popular campus hangout, three blocks due East of the Union. The highest density of pizza parlors in Ann Arbor. Also checkout [Pinball Pete's](#) arcade, [Bubble Island](#) (bubble tea), and several bars.

**State Street-** The latenight hub of Ann Arbor. Stroll the lively streets, lined with coffee shops, ice cream parlors, shopping and two historic movie theaters. The elegant Michigan theater specializes in award-winning independent films, accented by antique charm and architecture. The State theater caters to the latenight college crowd, showing comedies and midnight features. Ann Arbor [Comedy Showcase](#) is three blocks west on Liberty. Take a break in the [Borders](#) book store that started it all. Ann Arbor's premier draft bar, [Ashley's](#) serves pub food and 70 beers on tap.

**Main Street-** Best known for fancy dining, shopping, and galleries. Take Liberty 6 blocks West from State Street. Also check out two brew pubs on the north end, [Grizzly Peak](#) and [AA Brewing Co.](#) and the music scene at [The Blind Pig](#), one block West.

## **APPENDIX H: Event Proposal for Detroit Princess Riverboat**

Prepared on February 24, 2009 for Chris McGuffey for an Academic Society Dinner Cruise

### **Event Summary**

Date: Friday, April 09, 2010

Time: 6:00pm – 10:00pm (TBD)

**Cost per person: \$45.00**

### **Cost per person includes:**

#### **Dinner Buffet featuring:**

- Prime Rib
  - Grilled Salmon with Teriyaki Sauce
  - Chicken Florentine with Dijon Mustard Veloute Sauce
  - Pork Chops with Chipotle Apricot Glaze
  - Vegetarian Alfredo Lasagna
  - Potato Dauphinoise
  - Cheese Tortellini with Pesto Cream Sauce
  - Wild Rice
  - Caribbean Vegetable Medley
  - Assorted Salads
  - Assorted Rolls
  - Dessert (Chef's Choice)
  - Coffee, Iced Tea, Water
- 
- 2 ½ hour cruise on the Detroit River
  - White Linen Tablecloths, Client choice of Colored Linen Napkins
  - Personalized/Custom Tickets
  - Exclusive rental of the Detroit Princess Riverboat for your event
  - Use of any additional tables for registration, awards, memorabilia, etc., microphone, podium

\*\*Client required to provide own entertainment or Detroit Princess can hire for client at Market Price.

**Proposal Total: \$22,500.00 (based on 500 passenger minimum; excludes Bar Options)**

**Deposit Due: \$5,000.00 (payable upon signing event contract)**

**Balance Due: \$17,000.00 (based on 500 passenger minimum; due 2 weeks prior to event date)**

**Bar Options: (add'l. cost)**

Our bar service will have pop, beer, wine, champagne, mixed drinks and premium beverages available. No additional charges for bartender staffing will apply outside of 18% service charge and 6% sales tax. Special requests for a specific brand or beverage type will be given consideration and be made available if possible.

- **Cash Bar** – Each guest pays cash for each beverage purchased.
- **Open Bar** – Host or chartering party pays for entire bill at the end of the event or function.
- **Open and Cash** – Host pays for specific portion or items purchased by guests, such as pop, beer, & wine or whatever deemed appropriate by host or chartering party, and guests pay cash for anything outside of the set contract. (i.e. mixed drinks, etc.)
- **Beverage Tokens** – Tokens may be purchased in advance at a specified rate for certain levels of drinks of your choice. Alcohol levels are separated as Well, Premium and Top Shelf (See definitions below). Tokens are distributed to guests for redemption at bars for specific beverages outlined in the contract.

**Bar Pricing:**

<b>Pop</b>	<b>\$1.50</b>
<b>per glass</b>	
<b>Domestic Beer</b>	<b>\$4.00</b>
<b>per bottle</b>	
Examples include but not limited to: Bud, Bud Light, MGD, Miller Light	
<b>Premium Beer</b>	<b>\$5.00</b>
<b>per bottle</b>	
Examples include but not limited to: Corona, Heineken, Sam Adams	
<b>House Wines</b>	<b>\$5.00</b>
<b>per glass</b>	
	<b>\$28.00</b>
	<b>per bottle</b>
<b>Mixed Drinks (Well)</b>	<b>\$5.00</b>
<b>per drink</b>	
Examples include but not limited to: Amaretto, Blue Curaco, Buttershots, Castillo Rum, Castillo Spiced Rum, Crème de Cacao, Gilbey's Gin, Grape Pucker, Hot Damn, Lauder's, Peach, Popov, Sauza Gold, Seagram's 7, Sour Apple Pucker, Triple Sec, Vermouth – Sweet or Dry, Watermelon Pucker	
<b>Mixed Drinks (Premium)</b>	<b>\$6.00</b>
<b>per drink</b>	
Examples include but not limited to: Absolut, Absolut Citron, Bacardi, Bacardi Limon, Bacardi O, Bacardi Select, Bailey's Irish Cream, Bombay Sapphire, Christian Brothers Brandy, Canadian Club, Captain Morgan, Crown Royal, Cuervo Especial, Dewar's, Godiva Chocolate Cream, J & B, Johnny Walker Black, Johnny Walker Red, Jack Daniels, Jager, Jim Beam, Kahlua, Malibu Coconut, Midori, Sambuca, Southern Comfort, Stoli, Stoli Raspberry, Stoli Vanilla, Tanqueray	



<b>Mixed Drinks (Top Shelf)</b>	<b>\$8.00</b>
<b>per drink</b>	
Examples include but not limited to: Belvedere, Chambord, Frangelico, Grand Marnier, Grey Goose, Hennessy VS, Hypnotiq, Martell Noblige, NaVan	
<b>Mixed Drinks (Ultra Premium)</b>	<b>\$10.50</b>
<b>per drink</b>	
Examples include but not limited to: Hennessy VSOP, Patron, Remy Martin VSOP, 1800 Tequila	
<b>Specialty Drinks</b>	<b>variable</b>
<b>Champagne (Standard Asti)</b>	<b>\$28.00</b>
<b>per bottle</b>	

\* Additional types of Champagne and bottled wines are available

### **Open Bar Pricing**

- 1) Beer/Wine - 3 and a half hour bar for \$12 **or** \$4 per hour
- 2) Beer/Wine/Well - 3 and a half hour bar for \$15 **or** \$5 per hour
- 3) Beer/Wine/Premium - 3 and a half hour bar for \$18 **or** \$6 per hour
- 4) Beer/Wine/Top Shelf - 3 and a half hour bar for \$21 **or** \$7 per hour

### **Rules & Restrictions:**

- Minimum 2 hours
- All prices are per person/per hour
- No shots
- Does not apply to moonlight parties
- Tax and Tip additional (6% and 15%)
- Additional time based on applicable hourly rate