

**Penn State Nuclear Engineering Society
(PSNES) Annual Report**

to the

Penn State Engineering Alumni Society

July 2016 to June 2017

**Penn State Nuclear Engineering Society (PSNES) Annual Report
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1) Mission Statement

As Alumni, our mission is:

- 1) To foster a lifelong relationship among the Penn State nuclear engineering alumni and the Penn State Nuclear Engineering Program,
- 2) To facilitate, for all Penn State nuclear engineering graduates, a career avenue to the nuclear profession, and
- 3) To provide our individual and collective effort to support the Penn State Nuclear Engineering Program.

Note: Through its Constitution, PSNES explicitly includes both the College of Engineering's Nuclear Engineering Program and the Radiation Science and Engineering Center. Our Alumni view both organizations as integral and unique parts of the Penn State Nuclear Engineering experience. For this PSNES Annual Report, both organizations are included.

2) Purpose

PSNES was created as an Affiliate Program Group of the Penn State Engineering Alumni Society (PSEAS) in 2001.

The purpose of PSEAS shall be to promote fellowship and communication among the alumni, faculty and students of the Nuclear Engineering Program (NE or Program) in order to work for the improvement of the Program, the Mechanical and Nuclear Engineering Department, and the College of Engineering.

3) Membership (Note: information with **yellow highlight** was last updated in spring 2016)

Since inception, the Pennsylvania State University has 2304 Nuclear Engineering graduates with 1394 having active e-mail addresses on file with Penn State. Of this population, 576 are active in the Penn State Alumni Association. (Source: PSEAS Staff, May 14, 2017)

Note: The PSNES LinkedIn private group has 126 members (7 more than last year). The membership in this group is open to Students, Alumni, Faculty and Friends of the PSU Nuclear Engineering Program and the PSU College of Engineering Radiation Science and Engineering Center.

APG Membership	
Number of Members	299 (Source: MNE Webmaster. May 14, 2016)
How is membership determined? (registration with APG, all living alumni, etc.)	E-mail Registration via the PSNES Website or via methods as outlined in Article III of the PSNES Constitution. (See Appendix B)

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- 1) **Board of Directors (note: The Board of Directors - including officers – 2016 election turnover occurred on August 21, 2016, the date of the 2016 PSNES Annual Meeting. For completeness, refer to the 2016 Annual Report for the Board members serving out their remaining terms terminating at the 2016 election turnover.)**

Name	Title	Company Affiliation	Degree / Year	Board Term	Office/Notes
Patricia A Loftus	Manasota Chapter 116 Exec Committee & SCORE Certified Business Mentor	SCORE Assoc, Manasota Chapter 116, Business Owner	1975 BS NucE	Board Appointed (12/2015 to 8/2016 election turnover)	Interim President & PSEAS Board (see Note 4)
				Board Appointed (12/2015 to 8/2016 election turnover)	Interim Vice President
Catherine Perego	Senior Engineer	Westinghouse	2014 BS NucE	Board Appointed (8/2016) Resigned (4/20/2017)	Interim President
Doug Wood		Retired	1973 BS NucE	Board Appointed (5/2017 to 2018 election turnover)	Interim President
Vacant					Vice President / President-Elect
Doug Wood vacancy				2013-2018 (see Note 3)	At-Large Director
Hilary Neal	Manager, Performance Improvement	Westinghouse	2009 BS ME/NucE 2012 ME NucE	2013-2018 (see Note 1)	Secretary/ Treasurer
John Atchison	Senior Engineer	ISL, Inc.	1976 BS NucE	2013-2018	At-Large Director
Eric Beaumont	VP Global Research	Barclays	1992 BS NucE; 1994 MS NucE	2013-2018	At-Large Director
Michael Pantano	Graduate Research Assistant	MIT	2012 BS NucE, ME, Mathematics	2013-2018	At-Large Director
James Tusar	Senior Manager, BWR Design Nuclear Fuels	Exelon	1984 BS NucE	2011-2020	At-Large Director
Duane Karchner	Refuel Floor Manager - Susquehanna	Talen Energy	1981 BS NucE	2013-2018	At-Large Director
Hilary Neal vacancy				2013-2018 (see Note 1)	At-Large Director
Matt Ellis	NucE PhD Student	MIT	2012 MS NucE (PSU)	2016-2020	At-Large Director
Matt Wargon	Safety Analysis Engineer	SCANA	2014 BS NucE	2016-2020	At-Large Director

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Name	Title	Company Affiliation	Degree / Year	Board Term	Officer/Notes
Dr. Arthur Motta	Nuclear Engineering Program Chair	The Pennsylvania State University		Ex-Officio member per Constitution	Member with vote
Dr. Kenan Unlu	Director, Radiation Science & Engineering Center, Professor of Nuclear Engineering	The Pennsylvania State University		Ex-Officio member per Constitution	Member (RSEC Director, NucE Faculty) with vote
Rick Etling		Retired	1978 BS NucE	2013-2018	Immediate Past President with vote (see Note 2)
Jeremy Barnhart	MNE Student	PSU ANS Student Chapter President	2017 BS NucE	2015-2017	Ex-Officio, ANS Student Chapter President without vote
Dale Hoffmann		PSEAS President		Ex-Officio member per Constitution	Member (PSEAS President) without vote

By 12/2016 Board Appointment, Catherine Perego assumed the role of Interim President from 8/21/2016 through the 2018 Election turnover. In April 2017, Perego resigned. By 5/2017 Board Appointment, Doug Wood assumed the role of Interim President from May 2017 through the 2018 election turnover.

Note 1: Effective with the 2016 Election turnover (8/21/2016), Hilary Neal assumes the role of Secretary/Treasurer. In April 2016, the PSNES Board of Directors reserved the right to appoint an At-Large Director to be named later to fill the remainder of her vacant At-Large Director term through the 2018 election turnover.

Note 2: In December 2016, the PSNES Board of Directors appointed Rick Etling (last elected President) to remain in the Immediate Past President position through the 2018 election turnover.

Note 3: In May 2017, the PSNES Board of Directors appointed Doug Wood as Interim President replacing Catherine Perego through the 2018 election cycle. The PSNES Board of Directors reserved the right to appoint an At-Large Director to be named later to fill the remainder of his vacant At-Large Director term through the 2018 election turnover.

Note 4: Pat Loftus serves as the PSNES APG member on the PSEAS Board and serves as the PSEAS Board Marketing Subcommittee Lead.

2016 PSNES Election Summary:

The 2016 PSNES elections took place from January 25, 2016 through March 31, 2016. The new Board transition/turnover was completed at the August 21st PSNES Annual Meeting.

The PSNES Officers for the August 2016-2018 Term are:

- Interim President: Catherine Perego (resigned in April 2017), Doug Wood (appointed May 2017)
- Vice President/President Elect: Ramon Cruz (resigned prior to taking office in August 2016)
- Secretary/Treasurer - Hilary Neal

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The complete At-Large Director roster through 2018 with their respective terms is:

- Term 2016-2020: Matt Ellis, Jim Tusar, Matt Wargon
- Term 2013 - 2018: John Atchison, Eric Beaumont, Duane Karchner, Vacant Position (Hilary Neal), Michael Pantano, Vacant Position (Doug Wood)

2) PSNES Priorities and Focus Areas

Priorities and Focus Area	Progress Update
PSNES Revitalization & 2018 Elections / BOD Transition	<ul style="list-style-type: none"> • In progress
What can PSNES do to help, support, and advance the NucE Program, RSEC, Student American Nuclear Society (ANS), and PSU Women in Nuclear (WIN)?	<ul style="list-style-type: none"> • Start MNE E-Knowledge Commons PSNES Computer Lab Naming Opportunity promotion • Continue MNE Senior Recognition Banquet sponsorships • Continue annual selection of Beecher-Loftus Service & Leadership in Nuclear Engineering award recipient • Continue active engagement with PSU nuclear related student clubs (PSNES Liaisons) and PSEAS Board • Continue career path coaching to Students, Alumni • Complete Nuclear Engineering Time Capsule & Decal Design Competition
PSNES Membership Growth and Engagement (add focus on regional events)	<ul style="list-style-type: none"> • Instituted Alumni Early Career Award recognized at 3/2017 MNE Annual Senior Recognition Banquet • Continue digital outreach via PSNES LinkedIn private group posts, PSNES E-News Briefs, PSNES Website, Social Media posts on MNE Facebook page. • Completed 2017 regional event (4/2017 Student-Alumni Tailgate prior to Pirate Baseball game)
Student Mentoring/Networking Growth & Engagement	<ul style="list-style-type: none"> • Continue student driven mentoring/networking on demand (PSNES member resumes hosted in ANGEL) • Continue support to annual New Student Orientation (speakers) & social event participation

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3) Summary of PSNES Activities & Events

Activity/Event Name	Does PSNES have a program like this? YES or NO	Date(s)	Number of Alums Participating	Notes
Mentoring Program	YES	See Section 8 of Report for Details		
PSNES Leadership (Board of Directors) Conference Calls	YES	3/17/2017 5/25/2017	8+3 proxy 5+2 proxy	Typically ranges from 8- 14 per call including proxies Quorum for all meetings
PSNES Leadership (Board of Directors) Face-to-Face Meetings with Dial-In	YES	8/21/2016	13	PSU - Reber Building "Annual Meeting"
Speakers Bureau (informal)	YES		Typically 1 to2 / yr	Alumni speakers for classes (usually Tusar)
PSNES Alumni Tailgate	NO*	4/9/2017	8	Pirates baseball game *promote PSEAS PSU football tailgate
PSNES Facebook Group	NO*		PSNES does not track this	* MNE posts relevant to NucE. PSNES members contribute photos & content
PSNES LinkedIn Group	YES	Many posts	126	Includes Alumni, Students, Faculty and Staff of NucE/RSEC
PSNES Mailed Newsletter	NO	N/A	PSNES does not track this	*Articles in MNE publications
PSNES eNewsletter	YES	1	Entire PSNES membership	1 News Brief issued via PSNES Member Listserve
PSNES Young Alumni Career Award	YES	3/2017	2	2017 1st Awardee recognized at 3/2017 MNE Senior Recognition Banquet Uses PSMES as model

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Activity/Event Name	Does PSNES have a program like this? YES or NO	Date(s)	Number of Alums Participating	Notes
PSNES Time Capsule Decal Design Competition	YES	Schedule to align w/ MNE E-Knowledge Commons	PSNES Member content contributions on-hold.	Time Capsule procured & located in MNE Office. Goal to house in E-Knowledge Commons.
Annual selection of Beecher-Loftus Service & Leadership in Nuclear Engineering Awardee	YES	Fall 2016	Awards Committee: 4	See PSNES Website for Meeting Minutes (Student award endowed by Alumna)
Student Mentoring/Networking	YES		13 Alumni (same since 2015)	Student driven. Resumes in ANGEL.
E-Knowledge Commons PSNES Computer Lab Naming Opportunity Promotion	YES	ongoing	PSU NucE Alumni e-mail listserv (1200+?)	3 PSNES Members to co-sign MNE Letter (e-mail) to all NucE Alumni
Welcome Reception (Winter ANS Meeting venue)	NO*	*Not 2016		*Wash DC Winter meetings only (every other year. Considering for 2017.
New PSNES Website content support & Digital Communication Plan Execution	YES		PSNES does not have access to MNE analytics	NucE Program Communications & BOD are content contributors.
Constitution Review/Succession Planning Team	YES		PSNES BOD: 4	A small committee has been formed to suggest Constitution changes to address enhancing a sustainable stream of viable candidates for elected and appointments to vacant BOD and officer positions. Specific recommendations are under development.

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Activity/Event Name	Does PSNES have a program like this? <i>YES or NO</i>	Date(s)	Number of Alums Participating	Notes
Annual Fall New NucE Student Orientation speakers & social event	YES	8/21/2016	PSNES BOD speakers: 2 Attendees: 7	
Annual MNE Senior Recognition Banquet	YES	3/22/2017	2 PSNES BOD members + 3+ alumni student sponsors	
PSU on-campus events supported by Members	YES		1 Alumnus	RSEC Safeguards Review Committee

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7) Grant Reports

Semester/Year	Grant Name	Dollar Amount Received	Status
Spring 2016	New Grad Reception	\$1000	Final Report (Appendix A)
Fall 2016	Student-Alumni Connection	\$1000	Interim Report (Appendix A)

8) Mentoring Program Synopsis and Statistics

The Department of Mechanical and Nuclear Engineering (MNE) and the Penn State Nuclear Engineering Society (PSNES) jointly sponsor the Nuclear Engineering Mentoring Program to facilitate the professional development of MNE students by providing guidance, counsel and networking opportunities. Mentors interact with their student mentees on a confidential, one-to-one basis using a mutually agreed-upon method of communication.

In this program, students drive the interaction: they decide the objectives, select the mentor(s) they would like to contact from resumes hosted on the ANGEL site, and initiate the connection. This connection could be a one-time contact or the beginning of a long-term mentoring relationship. It is up to the student and depends entirely on his or her needs.

Number of Alumni Mentors	Number of Student Mentees	Total Number of Students Who Could Request a Mentor	Percentage of Students Requesting Mentor (as compared to potential total student population)
13 (same since Fall 2015)	N/A - Confidential, student driven		

Note: At least 5 informal email requests for student and early career alumni career option coaching were handled on a case-by-case basis. Each requestor was connected to 10-15 alumni in the PSU NucE Alumni network.

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Appendix A – APG Grant Reports

Grant Name PSNES New Grad Reception

Date 11/16/2016 (Spring 2016 Grant Final Report)

Description of Event/Program

4/30/2016 New Grad Reception - Goal to create student awareness of PSNES in advance of graduation and increase COE-Alumni-New Grad Connections leading to "more PSNES Members" and "more engagement". Conducted Student Interest Survey - 100% of those who responded No indicated date/time vs. no interest to participate.

Participant/Attendee Information

In the table provided, please indicate information related to participants/attendees.

Name	Please check the appropriate box.			
	Alumni	Student	Faculty/Staff	Other
22 Total Attendees	6	10	5	1
Alumni - Neal, Wood, Atchison, Loftus, Richard, Cruz				
Faculty/Staff - Brenizer, Erdman, Watson, Motta, Unlu				
Other- D. Brenizer				

Expenses: \$1000 Grant with Total Expense Reception (\$651)

In the table provided, please provide a detailed accounting of how the grant funds were spent.

Line Item	Dollar Amount
Reception (Line Items from Neal Spreadsheet)	\$651
PSNES Business Cards	Donated
Reusable Banner	N/A, Design logos still being vetted by PSU
Total	\$651

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Event Significance to the APG

Impact Assessment: Increased Awareness of PSNES via issue of student survey and reception. 2 new requests to join PSNES LinkedIn page, 7 Students requesting to be added to Listserv. Seven NucE Alumni participated in Fall 2016 MNE New Student Orientation/Ice Cream Social event and used the PSNES business cards. As a result of handing out the business cards, a new mentorship request was received and communication between PSNES and the NucE students increased. These are events the PSNES organization would like to continue hosting.

Lessons Learned/Best Practices

Describe lessons learned and best practices from your event/program that could be shared with other APG Leaders. If appropriate, separate Best Practice documents can be submitted.

Student Survey - good awareness opportunity. Feedback suggested timing away from the end of Semester/graduation is preferred.

PSNES to leverage benefits of April 2016 Reception to build awareness with underclassmen around New MNE Student Orientation and Ice Cream Social held just before the start of classes (August 2016) via extensive Alumni attendance (7) and distribution of PSNES Business Cards (who to contact, how to join, website link for PSEAS/PSNES, and PSNES LinkedIn Group).

Consider promotion through student clubs involved in nuclear (e.g., Student ANS, Women in Nuclear, etc.). Create and procure reusable PSNES banner suitable for such events and Name Tags for use at future PSNES/Student/Alumni/College of Engineering events.

Good to include PSEAS President and a recent graduate who benefited from PSNES (i.e. mentoring) as speakers.

There is a lot of great passion in the organization, but time is limited due to demanding careers for several PSNES officers/BODs. In order to be successful, planning needs to kick off early and communication needs to occur often.

Photographs - sent in final report transmittal

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**Penn State Engineering Alumni Society
Fall 2016 APG Grant Description & Extension Request**

Date: August 2016

Please select which grant you are applying for:

APG Start-Up Grant: _____

Description: Departments may apply for this one-time grant to assist in the development and start-up of a new APG. Funds may be used to offset costs associated with forming a new alumni group including meeting expenses, communications, and events. Maximum grant funding level is \$1,000.

APG Program Grant: ___X___

Description: Groups may apply for a program grant to assist with new or existing programs. Programs and events may be social or professional in nature, but must include an alumni relations component. Up to a maximum of \$1,000 per fiscal year (July 1 – June 30).

Applicant name and associated APG/Department/Program:

Hilary A. Neal, Secretary, Penn State Nuclear Engineering Society (PSNES) alumni organization

Applicant email address:

hilaryneal01@gmail.com

Name and email address of Department/Program Head (if different from applicant name):

Dr. Arthur T. Motta, atm2@psu.edu

If applicable, has the Department/Program head approved this grant request?

Yes. The Program head, along with the PSNES Board of Directors and other officers are in full support of this grant request.

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Description of Event/Program:

Increasing connection and engagement between alumni and College of Engineering (COE) and Nuclear Engineering stakeholders and growing the PSNES alumni membership base will continue to be key priorities for 2017. The long-term viability of PSNES is at risk without a sustainable pipeline of new graduate members and society leadership. This pipeline begins with strong connections and engagement between Nuclear Engineering Students and Alumni of the COE/MNE/NucE.

Encouraged by the success of the April 2016 New Grad Reception event, where beneficial face-to-face interactions took place as well as increased membership on our PSNES LinkedIn page, PSNES desires to continue creating opportunities to connect, engage and stimulate interest in Society membership and leadership while delivering value to both Alumni and COE stakeholders of the PSU Nuclear Engineering Program and the Radiation Engineering and Science Center (RSEC). Additionally, we want to be the go-to organization at Penn State for mentorship in the nuclear technology field.

If PSNES were to be awarded this grant, it would go fully towards the priorities listed above. PSNES would love to host a 2017 student/alumni-focused event as well as developing other potential networking and mentoring activities. PSNES is also in process of creating an "Early Career Award," similar to the Penn State Mechanical Engineering Society (PSMES) award to celebrate success of recent graduates. A portion of this grant would be utilized to recognize the year 1 recipient of this Award as part of the MNE Senior Recognition event in the Spring of 2017.

Amount requested: \$1000.00

Please note that the amount of each grant awarded to an applicant will depend upon the total number of grants approved for funding each semester. The APG Grants Committee reserves the right to award grants at a level lower than the amount requested.

Amount that your Department/Program has already committed to or spent on this event/program:

The PSNES Board has limited funds in its General Account to support a program of this magnitude. However, the PSNES Board members are very committed to these priorities and are prepared to make personal donations (time, financial support) to participate in these activities and events.

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Please provide an estimated budget for what specifically the grant funds will be used for:

Line Item	Dollar Amount
PSNES 2017 student/alumni-focused event (50 students at \$15/student + reserved space)	\$950.00
PSNES Early Career Award, token for recognition, such as a trophy or plaque	\$150.00
Time, travel, hotel of current PSNES members to support these events	Donation-based
Total	\$1100.00

Date (s) of Event or Program:

The PSNES Board will collaborate with the NucE Program to investigate feasible dates for the Nuclear Engineering student/alumni-focused event(s) with a goal of completing the events by June 30, 2017.

The PSNES Early Career Award recipient will be selected by December 2016 and recognized during the MNE Senior Recognition Event to be held in the Spring of 2017.

Please explain (250 words or less) the expected benefit(s) to alumni/department/students from this program and/or event:

PSNES recognizes the inherent risks associated with a stagnant membership base, and therefore desires to take action. Our society is committed to supporting students within the PSU College of Engineering (Nuclear Engineering Program, RSEC, Faculty/Staff and nuclear-related student clubs), as well as our alumni across the world. For now, the Board is maintained by a dedicated group of core members. However, PSNES needs to take additional action to ensure its longevity and continued success for making a positive impact at Penn State. Sustainable outreach and career/experience diversity will be key drivers in increasing our membership.

With this, PSNES recognizes the beneficial opportunities of connecting alumni with our Nuclear Engineering students, as we spread our passion and hope to one day welcome them into the organization as contributing members. Active members bring many opportunities to the College of Engineering in the form of mentorship, program support, internship/early career opportunities, and fellowship.

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Not only will a successful outreach program strengthen our PSNES membership, but it will also serve to improve our organization's diversity, innovation, and drive, all of which will better serve the Penn State College of Engineering nuclear community.

Application Deadline:

Fall grant applications: August 31

Spring grant applications: January 31

Please email your completed application to the College of Engineering Alumni Relations Office at alumni@enr.psu.edu.

All applicants will be notified of a grant award within two weeks of application submission.

Fall 2016 APG Grant Addendum (Submitted 5/31/2017)

PSEAS Fall 2016 PSNES APG Grant Extension Request

The PSNES goals in requesting a PSEAS APG Grant in Fall 2016 were to:

- Connect alumni with our Nuclear Engineering students, as we spread our passion and hope to one day welcome them into the organization as contributing members, and
- Commit to supporting students within the PSU College of Engineering (Nuclear Engineering Program, RSEC, Faculty/Staff and nuclear-related student clubs), as well as our alumni across the world

On April 9, 2017, PSNES applied alumni donations to conduct a regional Student-Alumni tailgate event before the Pittsburgh Pirates Baseball game. The event was timed to coincide with the National Student ANS Conference being held in Pittsburgh. Three alumni and approximately ten Nuc. E. students attended this event to network and discuss current events within the industry.

PSNES is requesting a schedule extension to November 30, 2017 within the existing APG Grant funding limit. This extension will enable PSNES to regroup after some unexpected leadership changes and take the necessary time to plan value-added events. The additional related activities or expenditures are expected to include but not be limited to:

- increased focus on building Junior awareness as they enter the Program through PSNES participation in the August 2017 New NucE Student Orientation (already planned by the Program)

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- creation and procurement of a reusable PSNES banner suitable for such events, PSNES “Business Cards” (Who to Contact, How to Join, Website link, and web address for PSNES LinkedIn Group), and Name Tags for use at future PSNES student/Alumni/College of Engineering events. 2017 possible applications include either the PSEAS 2017 Tailgate prior to PSU-Pitt game or a multi-organization reception in Washington DC at the venue of the American Nuclear Society's winter reception.
- Continuing to explore the feasibility of implementing a more regional model by conducting one or more regional events (Harrisburg, Philadelphia, Washington D.C., Pittsburgh, State College, PSU Commonwealth Campus locations, etc.) to better serve our current alumni base and find proactive opportunities to connect with Nuc. E. students (including World Campus). Data provided by Erin Tench, the COE Alumni Relations & Events Lead, show we have good connection potential in the following areas:
 - Pittsburgh – 382 Nuc E alumni
 - Harrisburg – 71 Nuc E alumni
 - Philadelphia – 199 Nuc E alumni
 - Washington D.C. – 195 Nuc E alumni

We will continue working to plan meaningful events for our Nuc. E. students, friends, and alumni. PSNES welcomes opportunities to work and connect with other engineering alumni organizations in the COE. Thank you in advance for your consideration of this grant extension request.

End of Addendum

Note - PSNES received the following PSEAS approval of the PSEAS Fall 2016 PSNES APG Grant Extension Request by email from Jonathan Dougherty dated June 8, 2017:

“The PSNES grant has been extended until June 30, 2018.”

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Appendix B – PSNES Constitution

See PSNES Website: <http://www.mne.psu.edu/Alumni/PSNES/Constitution.aspx>

Article I. Name

The name of this organization shall be the Penn State Nuclear Engineering Society, hereinafter referred to as PSNES or the Society. This Society shall be an affiliate group of the Penn State Engineering Alumni Society (PSEAS).

Article II. Purpose

The purpose of this organization shall be to promote fellowship and communication among the alumni, faculty and students of the Nuclear Engineering Program (NE or Program) in order to work for the improvement of the Program, the Mechanical and Nuclear Engineering Department, and the College of Engineering.

Hereinafter, reference to Program graduates or alumni includes reference to alumni of the former Department of Nuclear Engineering.

Article III. Membership

Section 1

Members - All living graduates of Program who have indicated a desire to be a member of PSNES are automatically members.

Section 2

Associate Members - Penn State graduates who are not nuclear engineering graduates but who desire to become a member of PSNES can do so by either self-nomination or by nomination by a member. Such a request must be made in writing.

Section 3

Honorary Members - When appropriate, the Board of Directors may designate non-alumni as Honorary Members in recognition of acknowledged eminence in some area of engineering or who have rendered outstanding service to the Program. Honorary Membership requires approval by a majority vote of the Board of Directors.

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Article IV. Organization

Section 1

A Board of Directors shall govern the general affairs of PSNES; the Board shall consist of:

1. the Society Officers: President, Vice-President/President-Elect and Secretary/Treasurer,
2. the Chair of the Program, ex officio with vote,
3. the Director of Radiation Science and Engineering Center, ex officio with vote,
4. a current NucE faculty member,
5. the PSNES immediate past president,
6. six to nine members to be elected at-large,
7. the President of the PSEAS or designee (ex officio without vote), and
8. the ANS student section president (ex officio without vote).

Section 2

All actions of the Board of Directors shall be decided by majority vote when a quorum is present. A majority vote is defined mathematically as one (1) plus half of those Board members who are present (either physically or by telephone conference call, assuming an even number of participants); or in the case of an odd number of participants (either physically or by telephone conference call) a majority shall be half of the participants rounded to the next higher even number present at any regular or duly called meeting of the Society.

A quorum shall consist of eight members of the Board. If a quorum is not present at a scheduled Board of Directors Meeting, a detailed description of the proposed action may be prepared and distributed to all Board Members within 14 days of the meeting. Within 14 days of receiving the proposed action, each member must submit their vote by postal mail or email to the Board Secretary/Treasurer. A tally of the votes will dictate the disposition of the action.

Section 3

The Board of Directors may solicit funding from members as necessary to cover the cost of special projects or operations.

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Article V. Elections

Section 1

The Board of Directors will nominate a slate of candidates for at-large Board positions and for the Society officers: President, Vice-President/President-Elect and Secretary/Treasurer. The nominations will be posted on the PSNES website and the membership will be notified of this electronically three months prior to the election. For those members without an E-mail address, the list of candidates will be sent by mail. Additional nominations from PSNES members may be made over the next 30 days after the list of candidates is sent to the membership by e-mail provided that the nominee has agreed to be nominated.

Section 2

Officers and Board Members shall be elected by a majority vote of those members who have submitted their vote electronically. The electronic vote will be taken by posting nominees names on the PSNES website for one month.

Section 3

At-large members' terms shall be staggered such that half (or approximately half) are subject to election/re-election every two years. At-large members may be appointed at any time by the Board of Directors to fill Board vacancies. At-large members so appointed will serve the balance of the unexpired term.

Section 4

Officers shall be elected for two year terms, with the exception of the Vice President/President-Elect, who upon election will have a four year obligation.

- a. At-Large Board members shall be elected for four year terms. Vacancies may be filled by appointment by the Board of Directors between every two-year election. Board members and Officers so appointed will serve the balance of the unexpired term.

Section 5

No Officers may be elected to the same office for more than two consecutive terms. The Vice President/President-Elect will have one combined term of four years. No Board Member may be elected to the same At-Large Director position for more than three consecutive terms.

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Article VI. Duties of Officers

Section 1

The President shall preside at all meetings and shall be responsible for general supervision of all work of the Society. The President and Vice-President/President-Elect must be Penn State Program graduates.

- a. The President, or designee, shall serve on all committees as an ex-officio member.
- b. The President, or designee, shall serve as this society's delegate to the PSEAS Board of Directors.

Section 2

The Vice-President/President-Elect shall serve in the absence of the President and shall also perform such duties as may be assigned by the President. The Vice-President/President-Elect shall assume the duties of the President in the event of the incapacity or absence of the President.

Section 3

The Secretary/Treasurer shall be responsible for the recording and reading of the minutes of all meetings, creating Society correspondence and reports, and shall be responsible for depositing, disbursing and accounting of all monies of the Society.

Article VII. Committees

The President may appoint standing and/or ad-hoc committees as required to accomplish the purposes and objectives of the Society. Furthermore, the President may terminate previously established standing or ad-hoc committees as required.

Article VIII. Meetings

Section 1

At least one meeting of the membership shall be held each year to be known as the annual meeting, and it shall be held at the time and place fixed by the Board.

Section 2

Special meetings of the Society shall be called at the discretion of the President. The Secretary shall send, to the membership, written notices (or E-mail if such addresses are available) of the annual and special meetings at least one month in advance.

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Section 3

The Board shall meet at the call of the President or at the request of a majority of the members of the Board. Secretary shall send, to the membership, written notices (or E-mail if such addresses are available) of the Board meetings at least one month in advance.

Section 4

The committees shall meet on the call of the committee chairman or at the request of the President.

Article IX. Amendments

Section 1

This Constitution may be amended by a two-thirds vote of the Society members present at any Society meeting as defined by Article VIII (meetings) above provided:

- (1) The amendments have been placed before the Board of Directors at least one month before the meeting, and
- (2) The amendments have been approved by a majority vote of the board members as defined in Article IV Section 2 above.

Section 2

This Constitution and its amendments must not be in conflict with the constitution of the PSEAS or the rules and regulations for constituent societies as established by the Executive Board of the Penn State Alumni Association.