

SPRING 2022 Newsletter

IN THIS ISSUE

PG 2 President's Message

PG 3, 9 Events

PG 4 Section Leadership

PG 5 Education

PG 7-8 Research Opportunity

PG 9-11 Student Chapter

PG 11-16 Scholarships

PG 17 Internship Opportunity



Spring 2022

PRESIDENT'S MESSAGE



Change is in the air!

After long discussions and so much leg work over locations and costs and amenities and everything else, the annual 2022 NWPA SPE Golf Outing is moving and will be held at Whispering Woods Golf Course. Some of our golfers love this for its location and course, some will miss the unique housing options at Peak'nPeek and its course. We will try this out and see, but I am confident the local membership and loyal golf supporters won't let us down.

I'm excited that we are finally getting to the point where we can go out and enjoy the opportunities to get together. That said, our next big change is that the March speaker is an in-person event! Join us at Hooch and Blotto's as we address the design leg of plastics with a talk about flow analysis and how to correctly interpret the results. If your company spends any money at all on flow analysis they you need to be here to make sure you are getting your money's worth. We follow this with more socials at new locations and then the opportunities in June to join the Behrend Plastics Conference and ANTEC. August brings our Annual Golf Outing to a new location at Whispering Woods. Then finally, we hope to be able to schedule a plant tour for this fall, but will make no plans until we are 99% sure they will not be canceled. This is such good news.

There is also sad news from this year. Our condolences to the Witkowski and Port Erie families as we sincerely miss our member, mentor, long-time supporter and friend, Bill. Also recently passed is our long-time golfer and supporter Mike Griffiths from The Plastics Group. Please know our thoughts are with the Griffiths family as well. We will miss both of these men and their support and contributions to the Section.

As you read ahead in the newsletter you will see what the student chapter has been up to, read about the first recipients of our research awards, find your free plastics educational opportunities and our scholarship applications to pass along to any high school seniors you know. I encourage you to spread the word about the NWPA SPE plastics happenings and please join us at our events!

Lucy Lenhardt NWPA SPE President 21-22 lad115@psu.edu





OUR NEXT EVENT:

NWPA SPE MARCH MEETING

<u>Wednesday March 30, 2022. Hooch and Blottos on Peach St. in Erie</u> \$20 NWPA SPE — \$25 Non-members — \$10 SPE students Stuffed Chicken Breast—Pork Loin—Potatoes—Veggies—Salad 5.30pm social; 6.00pm dinner; speaker to follow.

Speaker: Jennifer Schmidt, Senior Instructor, Beaumont Topic: Injection Molding Simulation—What Can I Trust?

Molding Simulation can be a very powerful tool, but you need to understand what to trust and what not to trust in those pretty pictures that come with the results. This presentation will dig into what questions to ask and what needs done to make for a successful Molding Simulation.

At Beaumont, Jennifer Schmidt is the Sr. Moldflow Instructor at the AIM Institute, with over twenty years of plastics industry experience. She has over a decade's experience with hot runners, and more than fifteen years of Moldflow[®] experience. She is a Moldflow[®] Certified Expert and GM Approved Moldflow[®] Analyst.



NWPA SPE BOARD OF DIRECTORS

President Lucy Lenhardt Penn State Erie Iad115@psu.edu

Vice President Bruce Buchman Allegheny Machinery Group bbuchman36@gmail.com

Past President Annie Gohn Penn State Erie amm6125@psu.edu

Treasurer Jenn Schmidt Beaumont Technologies Inc Jschmidt@beaumontinc.com

Councilor Brian Young Penn State Erie bay101@psu.edu

Secretary Michelle Hartman Penn State Erie maw179@psu.edu

Newsletter Chair Annie Gohn Penn State Erie amm6125@psu.edu

Special Events Chair Don McMillen Engineered Plastics dm@engineeredplastics.com

Social Network Chair Lynzie Nebel Cytiva lynzie.nebel@gmail.com

Tech Program Chair Lynzie Nebel Cytiva <u>lynzie.nebel@gmail.com</u> Membership Chair Brian Young Penn State Erie bay101@psu.edu

Scholarship Chair Danielle Bentley Plastikos dlw5209@gmail.com

Advertising Chair Michelle Hartman Penn State Erie <u>maw179@psu.edu</u>

Member Richard Deeter Deeter Tool deeter2@verizon.net

Member Shelly Czulewicz Encore Plastics shellyandme58@gmail.com

Member Mike Misco Shell <u>Michael.Misco@shell.com</u>

Member Elliot Carnevale Shell <u>Elliot.Carnevale@shell.com</u>

Member Kathi Gillespie Plastek Group <u>kathi.gillespie@plastekgroup.com</u>

Member Molly Joyce Plastikos <u>mjoyce@plastikoserie.com</u>

Member Jon Meckley Penn State Erie jam135@psu.edu Member Wayne Vanderhoof RJR Safety <u>Wayne@rjrsafety.com</u>

Member Ashley Puder Samtec <u>ashley.puder@samtec.com</u>

student rep David Peterson Penn State Erie dxp329@psu.edu

If you are interested in joining the leadership of the NWPA SPE, please contact any one of the board members listed here.



FREE EDUCATIONAL OPPORTUNITIES IN PLASTICS

Advancing Industry 4.0 in Northwestern Pennsylvania



The Office of Community and Workforce Programs at Penn State Behrend was awarded the Manufacturing PA Training-to-Career grant that provides a career pathway for data analytics.

These classes are free with the grant and will be held in person at Penn State Behrend. Pennsylvania residency is a requirement of this grant.

The training includes Introductory, Intermediate, and Advanced Microsoft Excel courses, Microsoft Access, Fundamentals of Statistical Process Control (SPC), Data Analytics, and Robotics.

All training courses are **completely funded by the grant with no participant fees**, Participants can take all the classes or select as needed and based on prior experience.

The target audience is out-of-school youth, adults with barriers to employment, dislocated workers, and those who are unemployed or underemployed. Please share this opportunity with family, friends, and other members of the community that might qualify. Additional information and a registration form can be found at this link: Industry 4.0 Center of Excellence

The <u>Plastek Group Academy</u> hosts free monthly webinars "to educate on best practices, operations and trends for the Plastics Injection Molding Industry". The company started this in response to the pandemic and received such good support they continue it today. Prior and upcoming programs can be found <u>here</u>.





Join here: 4spe.org

SPE Live Webinars series is one of the many great benefits you get with SPE. It offers members free education training and insight. Subjects differ widely and include all areas of tooling, processing, design, engineering, management, equipment.....you name it!

SAVE THE DATE: Thursday August 11, 2022 NWPA SPE GOLF OUTING Whispering Woods Golf Course

NWPASPE = RESEARCH spe

RESEARCH FUNDING OPPORTUNITY FOR NWPA MEMBERS

NORTHWESTERN PENNSYLVANIA

NWPA SPE is offering our membership the opportunity to access student research at no cost. Behrend Senior Research Projects are designed to give upper-class students 12-18 months to research a topic of interest to your company. The timeline typically includes a 3-semester progression where students will perform a literature review relevant to their project topic, perform design and testing, and compile a final report. The students interface with project sponsors at whatever level is required, generally via regular meetings. Sponsoring a senior design project is a low-cost and low risk way to investigate those backburner projects you never seem to have the time or resources to get done.

NWPA SPE will fund up to three research projects for our members to work with Plastics Engineering Technology students at Penn State Behrend. Projects can be in any plastics related area such as materials, processing, design, compounding, product development and more.

All submissions must be submitted by a member of the NWPA Section of SPE who is going to act as the primary contact. Project Sponsors are responsible for providing detailed instruction on expectations and deliverables and provide regular feedback and guidance to their student group. Senior project applications normally have a fee assessed with them. However, for the three winning SPE member projects, NWPA SPE will pay the application fee. NWPA SPE will not cover the NDA fee for sponsored projects.

To apply, submit a brief outline/proposal of your project idea to nwpa.spe@gmail.com, along with your contact information. You may be contacted to discuss the merits of your project idea. Project submissions

are taken on a rolling cycle, so they will be reviewed as soon as they are submitted, and will no longer be accepted after August 8, 2022 or once three have been accepted and approved by the school.

If your project is accepted, you will be notified and responsible for completing a formal application through the school website. Projects can expect to start in August 2022 with completion in 2024.



Student Chapter SPE Connect your research ideas now! Email nwpa.spe@gmail.org

RESEARCH FOR MEMBERS

TWO NWPA SPE MEMBERS AWARDED FREE STUDENT RESEARCH PROJECT SPONSORSHIP

NWPA SPE has selected two applicants for funding of their research projects starting in January 2022. For more information on this free research opportunity for our NWPA SPE members see page 7.

Project 1 SPE Member: Dave Rose

Project 1 Title: STRAIN RATE TO TEMPERATURE CORRELATION

<u>Project 1 Description</u>: Snap fit features that are designed into plastic parts are subjected to relatively high strain rates during use. A challenge for part designers is that stress vs. strain data at high strain rates is not readily available. This has caused the industry to develop snap fit design guidelines that recommend using a percentage of yield strain ranging from 20% - 70% depending on a number of other factors. Although stress vs strain data at higher strain rates is not readily available, stress vs. strain data at vary-ing temperatures is more readily available for many materials. Since there is a similarity in the way the material responds to colder temperatures as it does to higher strain rates, this study will focus on determining whether a correlation between the two variables (temperature and strain rate) can be made.

Project 2 SPE Member: David Hoffman

Project 2 Title: SHEAR DEGRADATION STUDY

Project 2 Description: Shear limits have been used in designing injection molds for decades, especially when determining a gate size. A common approach is to utilize Moldflow simulation to establish those shear rates based on the gate design and process conditions, and then compare the calculated values to the recommended shear rate limits in the material database. It has been proven many times that the shear rate can be exceed the limits with no apparent degradation to the polymer. Therefore designers may often be altering designs unnecessarily. One recognized issue with the published shear rate limits is that there is no documented reasoning for the limits used in the database that outline the issue to the polymer if the shear rate is exceeded. For example, it is unknown if there is a X% loss in molecular weight and therefore a resulting loss in mechanical properties. In addition, the polymer itself may not be harmed by exceeding the shear rates, but damage to additives could occur. There are other issues as well. It is expected that there is a mathematical relationship to the cumulative effect of shear rate and duration a polymer experiences that ultimately determine a level of degradation. If proven, this approach could serve to replace the current limited and unproven data used by designers and analysts across the industry. Some of the challenges for the study include determining the amount of molecular weight loss or additive loss that constitutes degradation; and measuring the molecular weight and additive loss. The study would seek to produce degradation in a runner and/or parts under well documented conditions, determine the shear rates and duration through each of the flow channels including the molding machine nozzle, establish various methods to determine the cumulative effect of shear and duration through those channels and determine base line values. The next step would be to alter the design and/or process and evaluate if the new degradation point could have been predicated using the various methods of determining the cumulative effect of shear and duration established earlier.

NWPA SPE SOCIAL at the TWISTED ELK Lake City PA

2

A small but dedicated crowd braved the February weather and came out to discuss the perplexing plastics issues of the day.

NEXT SPE EVENTS:



March 30, 2022 — In-person dinner speaker April 2022 — NWPA SPE Social

STUDENT CHAPTER NEWS

David Peterson, Plastics Senior Class President, Behrend

My name is David Peterson and I am the President of the Behrend Student Chapter of the Society of Plastics Engineers.

The plastics program at Penn State Behrend has held many open houses this year to increase exposure and has had good turn-outs and interest from potential incoming students. In the coming weeks, the program will also put on a table and small competition to recruit members for the NWPA SPE Student Chapter during the Penn State Behrend Engineering week. Discussion of the various opportunities and generous scholarships offered through SPE is sure to bring new membership to the organization. Looking ahead, we hope to hold outreach events at local high schools in an effort to introduce the plastics industry to students looking into engineering and further grow our program.

I look forward to the coming events, meeting new people and growing the network of the Plastics program and SPE chapter here at Penn State Behrend.

Regards,

David Peterson







NORTHWESTERN PENNSYLVANIA

Plastics Student Co-Op

SAM KRANTWEISS, SAMTEC Erie Employee/Student Co-Op

I began my Co-Op with Samtec at their Erie location in the spring of my sophomore year at Penn State Behrend with the hopes of experiencing and working in an industry setting before graduating from college. It took me a great deal of thinking and consideration to decide if I wanted to pursue the opportunity that Samtec was offering, not because I was concerned I was unable to complete the jobs assigned to me, but because I was concerned I wouldn't be able to adapt to the professional setting in the workplace. Looking back, I can't imagine why I was so concerned about this, but at the time I had never had a job in an industry environment before so it was something that really caused me to hesitate to take the Co-Op position. I know now that taking the opportunity was a great choice and has provided me with lots of experiences I wouldn't have been able to have just in the classroom setting.

A large part of the work that I do at Samtec has been working with flow analysis simulation software to help validate simulation settings and compare results to actual process settings used to produce parts. Using this flow analysis simulation software on a daily basis during the Co-Op has helped me develop my skills and understanding of the flow analysis simulation software. I have become proficient in producing simulation results for multiple projects, and have developed the knowledge to understand the results and create reports to detail the findings of the simulations. Another very important part of the

work I do at Samtec is using the flow analysis software and 3D modeling software to help improve the designs of parts before the mold is produced to help increase the likelihood that the parts will be produced to the standards that Samtec has set. This work has helped me to understand the different effects that changes in geometry and flow can have on the end results of the part. This experience so far has certainly helped me understand why flow analysis simulation software is used in the industry and how it can be used to improve the quality of the parts being produced before a mold is produced.

Another exciting experience I have had while part of the Co-Op at Samtec was actually being able to visit Samtec headquarters in New Albany, Indiana for a couple of days over the summer. I was able to see where a lot of the work I do with flow simulation software actually influences the part later on in the assembly component. I was able to see the quality control facilities and better understand what some of their quality checks are so that I can ensure that the work I do will pass the quality checks that they perform. Also, I was able to learn about all of the automation techniques that Samtec is developing to



improve their products which helped me develop a deeper understanding of the part that I play in helping improve the accuracy of the production of the plastic bodies. The trip was a great experience which allowed me to learn even more in a new environment at the Samtec headquarters.

If you've noticed while reading this, I have been writing as if I am still participating in the Co-Op program at Samtec, which is not normally when an article detailing my experiences at a Co-Op would be written, but Samtec's program is not a traditional program that might be found at other companies. The opportunity at Samtec is set up so that I am part of the program and work for Samtec, part time, until I graduate from college. One of the major benefits that I like about this opportunity is that I get to experience all of the benefits found in a traditional Co-Op program, while not delaying my graduation time. The longevity of the program has allowed me to work on projects that last far longer than even a traditional Co-Op might be able to work on. This type of program has given me opportunities to dive deeper into projects and really understand the full scope of the projects without having to leave halfway through the project when the Co-Op would finish in a normal program.

I genuinely believe my time at Samtec has been valuable to the growth of my knowledge and skills as an engineer. The experiences I've had and the people that I get to work with every day, have been critical to my development as a plastics engineering for my future career, possibly even at Samtec.



NWPA SPE MEMBER PROFILE

Dr. Gamini Mendis, Assistant Professor of Engineering, Penn State Behrend.

Gamini Mendis graduated with his Bachelor's Degree in Materials Engineering from Purdue University in 2012 and received his PhD in May 2017. Gamini was a National Science Foundation Integrative Graduate Education and Research Traineeship (IGERT) fellow, and examined the complex interactions between materials, policy, people and the planet. During his PhD, he worked to understand structureproperties-processing relationships in multicomponent polymer systems and the interactions between materials and the environment.



Gamini specializes in polymer sustainability, with active research projects on life cycle analysis of plastics, plastics in food packaging,

the end-of-life fate of plastics in the environment, and post-consumer recycling and upcycling. He is also investigating the implementation of smart manufacturing technologies to improve efficiency and reduce material waste.

While currently an Assistant Professor in the Plastics Engineering Technology and Polymer Engineering and Science departments at Penn State Behrend, he is researching smart and sustainable plastics manufacturing, plastics recycling, and the life cycle impacts of plastics systems. Among the classes he teaches are Materials Properties and Characterization, Polymer Sustainability, Polymer Chemistry and Characterization Labs and Plastics Failure Analysis.

Gamini is the current faculty advisor to the Penn State Behrend SPE student chapter. He is an avid traveler and amateur cook. He enjoys visiting different countries and cultures and trying out their unique cuisines. Gamini can be reached at gmendis@psu.edu.



NWPA SPE and SHELL are working together to sponsor the SPE PlastiVan to bring its programming to the Erie area. PlastiVan sponsorship is \$1750 a day and we plan to have it here for two days visiting middle school classrooms.



PLASTIVAN[®]: CHANGING THE PERCEPTION OF PLASTICS ONE CLASSROOM AT A TIME

NWPA SOCIETY OF PLASTICS ENGINEERS MEMBER'S SCHOLARSHIP APPLICATION

The Northwestern Pennsylvania Section S12 of the Society of Plastics Engineers is pleased to announce the NWPA SPE MEMBER'S SCHOLARSHIP. This scholarship is intended to reward outstanding high school students with a one-time monetary donation up to \$1000 to be used to further their education. This Award is available <u>only to NWPA SPE</u> <u>member's children or grandchildren who are currently high school seniors</u>. The application deadline is May 1, 2022. If you, or a local SPE member you know, has a high school senior who is planning to attend college in the coming year, we encourage you to apply.

Applications and further information are available on-line at https://nwpa.4spe.org/

NWPA SOCIETY OF PLASTICS ENGINEERS [S12] MEMBER'S SCHOLARSHIP RULES AND GUIDELINES

Eligible applicants are child dependents of current NWPA SPE members, who are in their senior year of high school and planning on attending college.

This award is a one-time monetary donation, up to \$1000, to be used for college costs.

This award will be paid directly to the college of choice, with proven acceptance.

Application selection is by a NWPA SPE Board of Directors sub-committee. No Board member with eligi-

ble applicants will be allowed to serve on this sub-committee.

Application criteria include:

Child or grandchild of a NWPA SPE member in good standing

Student GPA of 2.5 or greater and a brief written essay

Student's participation in curricular and extra-curricular activities

Sponsoring member's years of SPE membership

To apply, submit the following items by MAY 1, 2022:

Completed and signed award application

Short supporting essay detailing your future plans and goals

Copy of Letter of Acceptance from College

Applications are to be submitted to the NWPA SPE c/o:

Danielle Bentley, NWPA SPE Scholarship Chair

8121 Hawthorne Drive

Erie, PA 16509

dlw5209@gmail.com



In the event that there are no eligible applicants for the scholarship, the NWPA SPE Board reserves the right to withhold the monies to be awarded at a later date.

NWPA SOCIETY OF PLASTICS ENGINEERS MEMBER'S SCHOLARSHIP APPLICATION

The Northwestern Pennsylvania Member's Scholarship is intended to reward outstanding high school students with a one-time monetary donation up to \$1000 to be used to further their education. This Award is available to NWPA SPE member's children or grandchildren who are currently high school seniors. Deadline to apply is MAY 1, 2022.

Name of Applicant:	Phone:
Home Address:	
Email:	GPA/4.0:
High School You Now Attend:	
High School Address:	
List Scholastic Awards and Honors:	
List Extracurricular Activities (clubs, sports, volunteering):
College or University you plan to attend:	
College address & phone:	
Expected Start Date:	Expected Graduation Date:
Transcript: Attach a copy of your high school transcripts.	
Essay: Attach a short (one page or less) essay detailing yo	our future plans and goals.
Letter: Attach a copy of your Letter of Acceptance from t	he college/university, if available.
Signature of Applicant	
Name of NWPA SPE Member:	
Please return this application alor	ng with your attachments by MAY 1, 2022 to:
Danielle Be	entley, NWPA SPE Scholarship Chair



NWPA SOCIETY OF PLASTICS ENGINEERS SECTION SCHOLARSHIP APPLICATION

The Northwestern Pennsylvania Section S12 of the Society of Plastics Engineers is pleased to announce the NWPA SPE SECTION SCHOLARSHIP. This scholarship is intended to reward outstanding high school students planning to attend an accredited Plastics Program such as Plastics Engineering Technology, Plastics Engineering, Materials or Polymer Science. Other disciplines may be considered based on their relationship to SPE and the Plastics Industry. This is a one-time monetary award of up to \$500. One award will be given in each of our three service area counties: Erie, Crawford and Warren County, PA. The application deadline is MAY 1, 2022.

Applications and further information are available on-line at https://nwpa.4spe.org/

RULES AND GUIDELINES

Eligible applicants are in their senior year of high school and planning to attend an accredited Plastics Program or acceptable related discipline.

This is a one-time monetary award, up to \$500, to be used for college expenses.

This award will be paid directly to the college of choice, with proven acceptance.

Application selection is by a NWPA SPE Board of Directors sub-committee. No Board member with eligible applicants will be allowed to serve on this sub-committee.

Application criteria include:

Senior standing, attending High School in Erie, Crawford or Warren County, PA

Accredited Plastics/Plastics related field of study

Student GPA of 2.5 or greater and a brief written essay of future plans and goals

Student's participation in curricular and extra-curricular activities

To apply, submit the following items by JUNE 1, 2021:

Completed and signed award application

Supporting essay detailing your future plans and goals

Copy of Letter of Acceptance from College

Student resume, if available

Applications are to be submitted to the NWPA SPE c/o:

Danielle Bentley, NWPA SPE Scholarship Chair

8121 Hawthorne Drive

Erie, PA 16509

dlw5209@gmail.com



In the event that there are no eligible applicants for the scholarship, the NWPA SPE Board reserves the right to withhold the monies to be awarded at a later date.

NWPA SOCIETY OF PLASTICS ENGINEERS SECTION SCHOLARSHIP APPLICATION

The Northwestern Pennsylvania Section Scholarship is intended to reward outstanding high school students with a one-time monetary donation up to \$500 to be used to further their education. This Award is available to current high school seniors attending high school in Erie, Crawford or Warren County, PA and accepted into an accredited university for Plastics or Plastics related program. Dead-line MAY 1, 2022.

Name of Applicant:	Phone:	
Home Address:		
Email:		_GPA/4.0:
High School You Now Attend:		
High School Address:		
List Scholastic Awards and Honors:		
List Extracurricular Activities (clubs, sport	s, volunteering):	
Briefly answer: How did you decide to stu	udy Plastics?	
College/University you plan to attend:		
Expected Start Date:	Declared Major:	
Essay: Attach a short (half page) essay de	tailing your college plans and goals.	
Letter: Attach a copy of your Letter of Aco	ceptance from the college/university.	
Signature of Applicant:		
Please return this applicatio	n along with your attachments by MAY 1, 2022 to	:
Danielle Be	entley, NWPA SPE Scholarship Chair	spe
8121 H	lawthorne Drive Erie, PA 16509	NORTHWESTERN
dlw5209@gmail.com		PENNSYLVANIA

STUDENT CHAPTER SCHOLARSHIPS



\$3000 in NWPA SPE scholarships were awarded to six members of the Behrend Student Chapter of SPE. They were given out a the Christmas dinner and awards meeting. Each student received a check for \$500. The recipients were: Brianna Rathbun, Evan Quinn, Nicholas Frederick, Brooke Lenhardt , Joseph Greene and Hannah Duncan (not present).



NWPA SPE MEMBERSHIP HAS ITS BENEFITS

Being a member of NWPA SPE has its benefits! Such as:

- 1. <u>Technical meetings and Socials</u>— join us at a variety of fun establishments as we discuss the industry as we know it (and other stuff).
- 2. <u>NWPA SPE Member's Scholarship</u>—a college scholarship just for member's children or grandchildren.
- 3. <u>Free Technical Webinars</u> as well as access to ANTEC research, articles, conference proceedings, podcasts and more in the SPE Library. Covering all aspects of the industry.
- 4. Free Research Opportunities!
- 5. <u>Free Plastics Engineering magazine</u> and Tech Talks. National membership directory of contacts.
- 6. Our Golf Outing is a blast!

spe INSPIRING PLASTICS PROFESSIONALS



Northwestern PA Section

NORTHWESTERN Society of Plastics Engineers

COMMUNICATIONS INTERNSHIP

2021-2022 ACADEMIC YEAR

What we do:

Outreach events	Technical speaker series		Industry networking	
Plastics engineering training	Plant tours		Research sponsorship	
Job Responsibili	ties	Apply by I	December 15th	
Website development Newsletter		Qual	ifications	
Social networking		Commu		
Photographer for special events		Experience in website design		
		Experien		
Unpaid internship Find out more at nwpa.4sp	e.org	Email y	/our resume to:	
		Nwpa.sp	e@gmail.com	

CALL FOR BOARD OF DIRECTOR MEMBERS NORTHWESTERN





NWPA SPE welcomes all members with an interest in helping guide the Section to join us at any Board meeting. Come see the process behind the planning and see how you can take an active role in the leadership of our local chapter.

The Board of Directors is comprised of four executive officers and a number of chair positions as well as several general members. They are charged with the oversight and direction of the NWPA SPE Section12. A brief description of the positions is listed below.

Executive Positions: President; Vice President (Chair-Elect); Past President; Treasurer – financial director

Councilor – liaison between NWPA SPE Section12 and National SPE, attend Council meetings & report. Secretary – records Section's meeting minutes, verifies all voting, and issues statements from both the executive board and the Board of Directors.

Golf Outing Chair – directs aspects of the Section's annual golf outing.

Social Networking Chair – responsible for the social communications of the Section.

Special Events Chair – responsible for all aspects of special events held by the Section.

Technical Program Chair – establish and suggest a list of possible programs for the year.

Membership Chair – responsible for communication with members, maintaining membership roster and working to advance membership and benefits.

Advertising Chair – establish, recruit and place advertising.

General Board Member/Director – this general member is the perfect starting point for someone who wants to be more involved with the Chapter but might have concerns about leading a committee. General members provide input to specific committees and/or to the Board as a whole. Attend BOD meetings.

Committee work is addressed outside the Board meetings and the amount of work associated with each committee varies greatly. There are usually five Board meetings annually, with each committee reporting back, so you can expect a time commitment of attendance at those meetings, in addition to any committee work, if you choose. We need our members to help us lead this Section.

NWPA SPE is a volunteer organization and cannot fully function without the input of its membership. Please consider nominating a member, or yourself, to join the Board and accepting a nomination made for you. Email nwpa.spe@gmail.com if you can join us in the leadership of this section.

We need our members!