



SOCIETY OF PLASTICS ENGINEERS – CLEVELAND SECTION

October 2016 Vol. 60 No. 2

www.specleveland.org

Editor: [Bruce Bille](#)

Upcoming Meeting: Monday, October 10, 2016

Vadxx Waste Plastic to Fuel

Presentation by Mr. James Garrett, CEO

Location:

Hilton Akron/Fairlawn
[3180 West Market Street](#)
[Akron, Ohio 44333](#)

Agenda:

4:30 Board Meeting
5:30 Social / Networking
6:00 Dinner
Program immediately follows dinner

Price: Members/Guest - \$25 / Retired - \$20 / Student - \$5
New members – first meeting FREE.

Reservations:

Reservations must be made by noon on Friday, Oct. 7 with Gary Taylor at 330-419-4380 or akronspel@gmail.com. Please be sure to include the company affiliation of each attendee including dietary restrictions.

Quick Clicks:

[President's Message](#)
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[About the Monthly Program](#)
[About the Speaker](#)
[About SPE-Cleveland](#)
[SPE-Cleveland Website](#)

We are looking for volunteers to join our Board, especially to fill the Membership and Advertising chair positions.

Please contact Moris Amon, m.amon@roadrunner.com, for further information.

Directions to October 10th Meeting

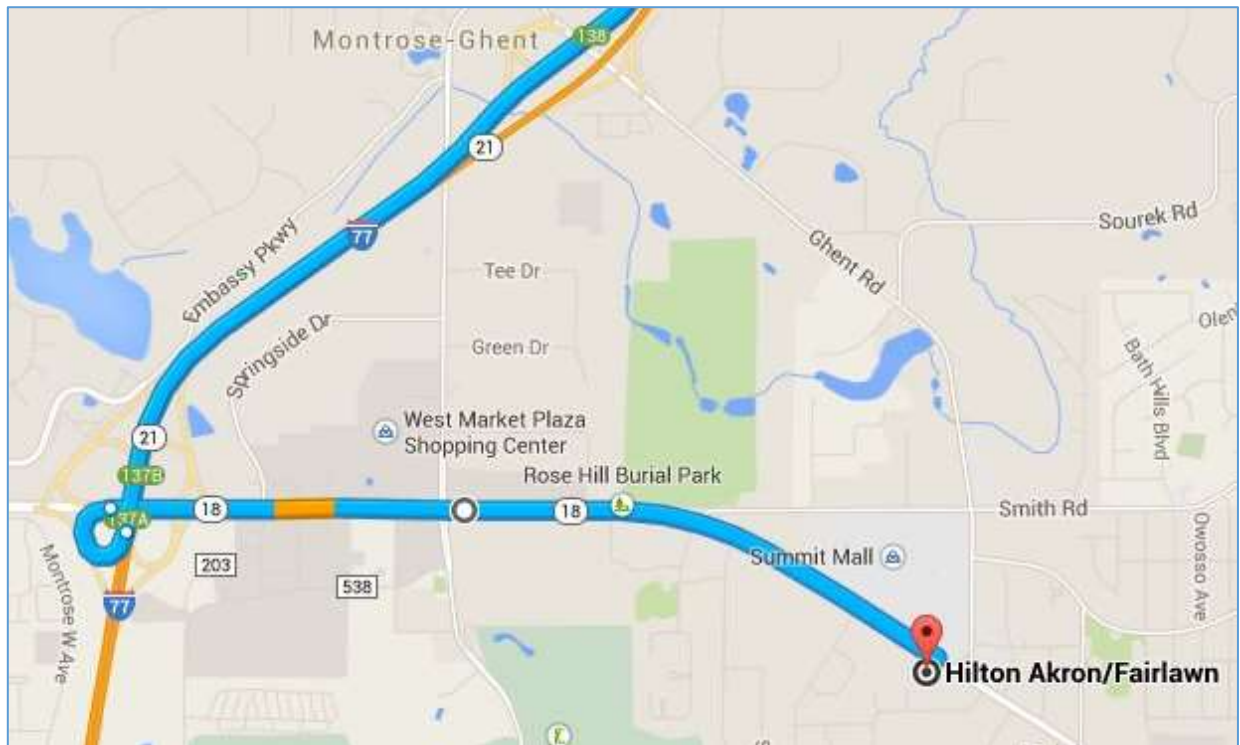
Directions from Cleveland:

Take I-77 south to Exit 137A (Rte 18 East).

In 2 miles, Hilton Akron/Fairlawn will be on the right hand side across from the Mall.

Parking is free in the hotel parking lot.

(Click on the map to view in Google maps)



About the Speaker:

Mr. James Garrett has served in various financial, operating and engineering management roles with energy and technology companies for 30 years. These have included executive officer roles with technology start-ups to Fortune 200 companies. Within the energy industry, he has worked with Marathon Oil Company, Consolidated Natural Gas (Dominion), American Gas Association and Energy West. Mr. Garrett has raised substantial capital from equity centers throughout the world and has completed numerous public equity offerings. Professional credentials include Registered Professional Engineer. Mr. Garrett has a BS Engineering and MBA, both from Case Western Reserve University. Mr. Garrett has served on numerous company and non-profit boards.



About the Presentation:

Vadxx recycles waste plastic and produces high value EcoFuels and petrochemicals (diesel, naphtha, etc.). The company has built the first continuous, commercial waste plastic to fuel facility in the nation in Akron, OH. Commissioning runs were successful in July 2016. There is enough waste plastic feedstock being disposed of in landfill at cost, just in the US, for 1500 Vadxx plants (each plant takes in 25,000 tons/yr plastic and produces 125,000 bbls/yr).

Vadxx's business plan is to achieve operating break-even of \$20/bbl. This is a lower all-in oil production cost than almost all traditional "drill bit and refining" fuel production. Assuming \$50 long-term oil prices, the returns for future Vadxx units are expected to be exceptional. Vadxx provides far more economically attractive EcoFuel production with better environmental attributes than most traditional oil production. The Vadxx solution helps minimize a growing world concern of waste plastic polluting our oceans and waterways. The company is presently in discussions with large international corporations and financial institutions to implement Vadxx waste plastic to EcoFuel units worldwide.

President's Message

A message from the Cleveland SPE section (s003) 2016-2017 President:

Hello, and welcome to the 2016-2017 SPE season. It is a great honor to serve as SPE Cleveland Section President. I have worked in the plastics industry and have been an SPE member since 1998. I am a mechanical engineer specializing in product design for the injection molding industry.

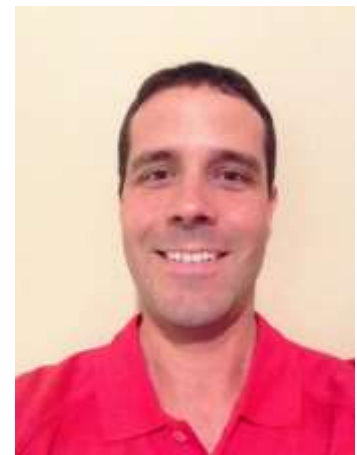
We start off this year's season on September 12. The event is at The Technology House in Streetsboro. Mark Horner of Technology House will be giving a presentation on Additive Manufacturing (3D printing), followed by a plant tour. Don't miss this opportunity to learn about some innovative technology and network with other plastics professionals!

After that, all events are on the second Monday of each month with the exception of the TPE TopCon on September 20-22, and the Holiday Party which is on December 5th, which is the first Monday of the month. Events are held jointly with the Akron Section, which provides even more opportunities to meet and network with other SPE members. Go to <http://specleveland.org/schedule> for a full and current list of all events.

Any members who are interested in being on the board or working on any of the committees should contact me (mail@cmd-tip.com). We have openings, and all help is welcome. Board meetings are usually at 4 pm before each month's event, at the event.

We look forward to seeing everyone at the events. Let's have a great year!

Dan Crist
2016-2017 SPE Cleveland President
mail@cmd-tip.com



September 12th Technical Meeting Review:

Forty members of the SPE Cleveland and Akon sections gathered at The Technology House (TTH) in Twinsburg to tour the facility and hear the presentation of the Carbon CLIP process. This process makes functional solid plastic parts from various initially liquid materials solidified by computer-guided focused UV radiation. The final part hardness can be varied from flexible (e.g. for seals) to rigid (e.g. for structural parts). See www.tth.com for details.

The process was demonstrated and explained during the tour, and a presentation by Mark Horner followed. Several processes used to create 3D solid parts used for sales demonstration and functional testing were shown. TTH is a beta center for the Carbon Corporation (California). The objective is to use this process to produce small production quantities. The physical properties of the parts are equal to those of injection molded parts.



Manufacturers of Quality Polymer Additives
for the Global Polymer Industry
www.valtris.com

SPE Cleveland Section Board Meeting Minutes September 12, 2016

Attending: Dan Crist (President), Moris Amon (Treasurer and Secretary), Alex Kawczak (President Elect), Ron Raleigh (Awards Chairman), Jerry Blayne (Councilor), Rik Keeley (Past President), John Sovis (Program Chairman)

Minutes

PlastiVan: Ron Raleigh made a contact at the Cleveland Technical Societies Council (CTSC) meeting in late August, who then put him in contact with the principal of Ridgefield Academy, who expressed his interest in hosting the PlastiVan for the benefit of their high school students. The cost of the PlastiVan is \$1500 plus travel expenses for its presenter. Since our Education Chairman Dennis Meade was absent, the questions of 1) the total cost and 2) funding sources were postponed to a follow-up meeting with him. A Board teleconference will be held for this purpose on Thu. Sep. 22.

Scholarships: Last year, we agreed to fund two college scholarships at \$1,500 each for students of plastics engineering. J. Sovis asked whether there had been any follow-up of last year's recipient to decide whether to renew his scholarship. In D. Meade's absence, the question could not be answered. It will be addressed at our teleconference on Sep. 22.

Essay contest: Diverging views emerged on whether and how to continue our essay contest in 2017. Only the students of one teacher from one high school participated in 2016, and the judges were disappointed in the quality of the essays submitted. Proposals ranged from eliminating the contest altogether to reforming it. Proposed reforms were: 1) Allowing only one author per essay, 2) skipping the first, second, or third place award if an essay meeting standards is not found, 3) cancelling the contest if sufficiently broad participation is not obtained. The resolution of this question has also been postponed to our teleconference of Sep. 22.

Budget: M. Amon presented a draft budget with three questions:

1. Councilor travel expenses: J. Blayne provided a maximum estimate of \$5,000, including expenses already incurred at ANTEC 2016 but not booked in the 2015-2016 fiscal year. This is the largest single item in our budget, exacerbated this year by SPE's requirement to attend the meetings in person and their choice of relatively expensive hotels.
2. Funding for the essay contest: We decided to keep it at the same level as last year, pending resolution of the question as explained in the preceding paragraph.
3. Advertising revenue: So far, CMD and Valtris have renewed their ads (thank you Dan and Ron), but we are falling far short of last year's receipts. We urgently need a replacement for our former Advertising Chairman David Lapierre to mind this issue.

Admission of non-members to our events: Although everybody agreed that barring non-members from attending our monthly meetings was not practical, there were diverging opinions on whether to charge them a higher price and how much. One proposal was to charge them 2 to 3 times the regular price of \$25 since they avoid the annual SPE membership dues of \$135. Another point of view was that since our section's share of the annual dues via SPE's "rebate" is at most \$10 per member, we should only charge them an extra \$10. Finally, some argued that any increase in price would drive valuable prospective new members away, and should therefore be avoided. The issue was tabled until the Oct. 10 Board meeting since the Oct. 10 event is hosted by the Akron section.

WE NEED TO FILL THE VACANT MEMBERSHIP AND ADVERTISING CHAIRS ON THE BOARD. VOLUNTEERS WELCOME. MUST BE OR BECOME SPE MEMBERS.

Addendum To Minutes September 22, 2016

A teleconference was held today as agreed at our regular meeting on September 12.

In attendance: D. Meade (Education Chairman), Moris Amon (Treasurer and Secretary), Alex Kawczak (President Elect), Ron Raleigh (Awards Chairman)

PlastiVan: Dennis Meade found out that the cost of the PlastiVan is \$1,650 per day, \$7,500 per week, including travel expenses. He is in contact with the Plastics Pioneers Association for funding. M. Amon contacted the SPE Foundation for additional funding. D. Meade and any other interested members of the Board will meet with Eve Vitale, director of the Foundation, when she is traveling through Cleveland in mid-October.

Scholarships: Last year's scholarship recipient has not applied for renewal of his scholarship; renewal is not automatic. The wording about the application deadline will be removed from our web site. We will award two scholarships per SPE fiscal year (July 1 to June 30) to deserving students of plastics engineering on a first come first served basis.

Essay contest: We will hold the contest again in 2017, but to ensure quality, we will reserve the right to withhold prizes. D. Meade will write new rules to be reviewed at the October 10 Board meeting and published on the web site if approved.

Future SPE Cleveland Section Programs

Oct 10	Vadxx Scrap Plastic to Oil	Hilton Fairlawn
Nov 14	Reuther Mold Mold Design and Manufacture	Cleveland
Dec 5	Holiday Celebration featuring the Madrigal Singers	Taverne of Richfield
Jan 9	A. Schulman, Inc.	Hilton Fairlawn
Feb 13	Cleveland Federal Reserve Bank NE Ohio Economy	Hilton Fairlawn
Mar 13	Valtris – Additive Development and Manufacturing, Plant Tour	Cleveland
Apr 10	Industry/Teacher Collaboration Plastics in Education	Hilton Fairlawn
May 15	Awards Night	TBD



SPE ANNUAL FINANCIAL REPORT

Annual Financial Report for the Period:
Section/Division Name:

July 1, 2015 to June 30, 2016
Cleveland 03

Balance as of July 1, 2015 -1 \$ 40,225.06

Cash, checking, savings, investments.
Equal to line 32 of previous year's SPE Financial Report. On file with SPE HQ if needed

Income	Actual	Budget	Variance
Interest & Dividends	-2 \$ 216.01	\$ -	\$ 216.01
Monthly Meetings	-3 \$ 2,805.00	\$ 2,600.00	\$ 205.00
Board Meetings	-4 \$ -	\$ -	\$ -
TOPCON Receipts	-5 \$ -	\$ -	\$ -
Educational Programs	-6 \$ -	\$ -	\$ -
Newsletter Ads / Sponsorships	-7 \$ 1,150.00	\$ 1,150.00	\$ -
Grant Contributions	-8 \$ -	\$ -	\$ -
Scholarship Contributions	-9 \$ -	\$ -	\$ -
SPE Rebate	-10 \$ 2,156.26	\$ 3,700.00	\$ (1,543.74)
Other:	-11 \$ -	\$ -	\$ -
Other:	-12 \$ -	\$ -	\$ -
Other:	-13 \$ -	\$ -	\$ -
Other:	-14 \$ -	\$ -	\$ -
Other:	-15 \$ -	\$ -	\$ -
Total Income (add lines 2 - 15)	-16 \$ 6,327.27	\$ 7,450.00	\$ (1,122.73)
Total Funds Available (add lines 1 and 16)	-17 \$ 46,552.33	\$ 47,675.06	\$ (1,122.73)

Expenses	Actual	Budget	Variance
General Office Expenses	-18 \$ 100.00	\$ 200.00	\$ (100.00)
Monthly Meetings	-19 \$ 4,182.38	\$ 3,600.00	\$ 582.38
Board Meetings	-20 \$ 105.00	\$ 500.00	\$ (395.00)
TOPCON	-21 \$ -	\$ -	\$ -
Educational Programs	-22 \$ -	\$ -	\$ -
Newsletter + web site	-23 \$ 1,111.90	\$ 1,700.00	\$ (588.10)
Awards	-24 \$ 853.18	\$ 700.00	\$ 153.18
Scholarships / Grants	-25 \$ 1,500.00	\$ 1,500.00	\$ -
ANTEC Expenses	-26 \$ -	\$ -	\$ -
Councilor Travel	-27 \$ 5,254.12	\$ 6,300.00	\$ (1,045.88)
Other: Cleveland Technical Societies Council dues	-28 \$ 50.00	\$ -	\$ 50.00
Other:	-29 \$ -	\$ -	\$ -
Other:	-30 \$ -	\$ -	\$ -
Total Expenses (add lines 18 - 30)	-31 \$ 13,156.58	\$ 14,500.00	\$ (1,343.42)
Ending Balance (subtract line 31 from line 17)	-32 \$ 33,395.75	\$ 33,175.06	\$ 220.69

Allocation of Funds on Line 32 (enter allocations as applicable)	
Checking Account	(A) \$ 4,890.07
Savings Account 1	(B) \$ 8,405.68
Savings Account 2	(C) \$ -
Investment 1	(D) \$ 10,000.00
Investment 2	(E) \$ 10,000.00
Petty cash	(F) \$ 100.00
TOTAL	(G) \$ 33,395.75

Amount on line G should equal amount reported on line 32

Section / Division Treasurer's Name:	MORIS AMON
Audit Committee Attest:	SCOTT G. STRAWN, CPA

About the SPE Cleveland Section

We are the Cleveland Section of the Society for Plastics Engineers (SPE), the leading plastics professional society in the world. Since 1942, SPE has been the "go to" technical information, training, networking, and information-sharing source for plastics professionals who want to advance their knowledge and careers. Membership in the Society offers:

- free access to a vast on-line collection of technical journals and conference proceedings;
- significant discounts at many SPE-sponsored conferences, including SPE's famous international Annual Technical Conference (ANTEC);
- free access to a job search and recruitment web site, SPE Career Solutions;
- professional networking and information-sharing through its on-line social network, the Chain;
- opportunities for volunteer participation in the work of the Society at national or regional level.

Explore what SPE has to offer at <http://www.4spe.org>.

Founded in 1943, the Cleveland Section was the third section to be formed in the USA. Its first president was Reynold (Ren) Morse, who later founded the Industrial Molding Supplies (IMS) Company. Our objective is to promote scientific, engineering, and business knowledge related to the plastics industry in North East Ohio. We are the professional home for nearly 275 plastics professionals across the Greater Cleveland area.

Every year, from September through May, we organize one meeting per month, advertised in advance in our on-line newsletter, the SPEC Sheet. A typical meeting consists of a social hour, followed by dinner, and culminates in a technical presentation by an expert. Occasionally, a plant or laboratory tour replaces or supplements the presentation. Our programs (with the exception of the Awards Night in May) are held jointly with the Akron Section of SPE, with which we have collaborated since its inception in 1958, when it split off the Cleveland Section. For a history of programs in recent years see <http://specleveland.org/history-of-events>.

Wherever you are in your polymers-related career-from student through retired-we invite you to benefit from and contribute to SPE as an active member of your Cleveland Section. Join our active membership by clicking the link below:

<http://specleveland.org/membership>

Advertise with the SPE Cleveland Section! Reach out to customers!

Newsletter and web page... Dual promotion – one price! Both [hyperlink](#) capable!

Contact Moris Amon at m.amon@roadrunner.com
for annual packages and discount part-year packages.

2016 – 2017 SPE Cleveland Section Officers and Board of Directors

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SCREW TIPS

FOR PLASTIC INJECTION MOLDING

3 PIECE RING VALVES

5 PIECE RING VALVES

BALL CHECK VALVES

POPPET CHECK VALVES



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