# 2019 Online Courses Program

SpecialChem

*Be it Latest Formulation, Right Methodology, or Fresh Innovations*

## With Us
## You Always Stay at the Forefront!

# Welcome to SpecialChem Online Courses 2019 Brochure

2019 is here and it's time to start planning for the new year. Through our courses, we wish to enable new ideas & innovations to help you boost your skills and tackle your challenges faster!

Though the internet provides a lot of information, but nothing can replace the hands-on-experience of industry experts active in the industry for several decades. You can count on us and our robust network of leading experts, to deliver the best right to your desk!

## Have a look... the 2019 program is packed with many new courses!

Missed a course this year? Wished your colleague (boss!) had attended with you?

You have another opportunity to catch up in 2019... Many of our popular courses are back into the program and an on-demand version is also available!

## Looking to train your whole team?

Online Courses Credits and Unlimited Access will make your life easy while making savings on your training budget. Learn more about our cost-saving packages

## 15 years of delivering high quality e-training courses

In 2018, we completed 15 years and also reached the landmark of 150+ courses in our library! I would like to thank all of you for being a part of our journey and a special thank you to our long-time attendees for being with us for all these years!

I look forward to your continued patronage and we promise to keep adding new courses & improving our services to address your needs better.

Sreeparna Das
Online Courses Program Director
SpecialChem

**Do visit the website for full details, updates and to book.**

Please remember that we're here to help. To talk to us about your training requirements, call us on +33 1 72 76 39 13 or contact us by email: online-courses@specialchem.com

# Why train with SpecialChem?

1. We train more than **2000 professionals** every year and **97% reported** a high level of satisfaction in 2019

2. It is the only place to benefit from **courses with an industry-applied touch**: dispersion in coatings and inks, compatibility of plastic blends, rheology for adhesives and sealants and more...

3. It offers a unique opportunity to **connect with technical experts** who are all passionate about sharing their technical know-how and strong industry knowledge.

4. You can go beyond traditional skills development and **discuss your own cases with industry experts** even after the training session is over.

5. Attending Online Course is **Easy**

> «It is very good to hear from a lecturer with extensive real-world experience rather than (or in addition to) just academic knowledge.»
>
> **Antonio P.**
> Sr. Materials Engineer
> at Quantum Leap Packaging

## REGISTER > RECEIVE > GET TRAINED > INTERACT WITH EXPERT

# Smart ideas to attend Online Courses

## Get Courses On-Demand: Watch & Learn at a Convenient Cost

Starting at 199€

Not able to make it on a particular day or time? Don't worry! With our enhanced library of On-demand Courses, access the recording of the live session given by the expert.
You will also get:

- Presentation Slides
- 30 day access anywhere anytime
- Expert's contact details for your technical queries

Access here!

## Train with your colleagues

Because **it is more productive to share**, you can attend e-Training Courses with your colleagues!

> 1... 2... 3 attendees in the same room = **SAME FEE!**
*(1 internet connection - Regular Access)*

> For group of 4 and over or requiring additional connections, the Group / Multi Access applies *(up to 3 internet connections)*

One payment, 5 to 10 training sessions and great savings!

## Online Courses Cost Saving Packages

Purchase Online Courses credits in advance and use them (whoever in your team / company) whenever you want within 12 months.

>5 Online Courses Credits
999€ (up to 30% savings!)

>10 Online Courses Credits
1499€ (up to 55% savings!)

Purchase your Cost-saving Packages here!

## Unlimited Access to Online Courses

A hassle free solution to help you and your staff develop technical skills and industry understanding by attending as many sessions as you need within a year.

> Unlimited Access

5999€/year* (Register up to 10 people to any of the 85 courses and save tens of thousands of Euros!)
*Special Offer: 3999€/year till 15th Feb 2019

**Each 2018 subscriber has saved 23 K€ on average!**

"I chose the unlimited access because of the money reduction and I am very satisfied! It encourages me and my colleagues to attend a large number of useful events I wouldn't have attended otherwise."

**Eric P.**
Project Engineer
at Nypro Inc.

# Train with the best experts

To offer you the highest quality trainings, we work with the best independent experts from all over the world. They possess strong technical knowledge and are all passionate about sharing their know-how. This is part of our commitment to deliver industry-focused, practical and unbiased courses.

"The opportunity to get your questions answered was very good. The instructor has a good and broad technical knowledge on the topic."

**Sander N.**
Business Development Manager
at Underwriters Laboratories

## Why do experts like sharing their expertise through SpecialChem?

When working with SpecialChem, industry experts benefit from SpecialChem's expertise in creating and delivering outstanding online courses:

> They have access to SpecialChem's website members (500,000+)

> We support them to ensure your needs and expectations are met

> They are trained on our online presentations best practices

**Speakers rated good or higher by 98% of 2018 attendees**

## We select seasoned professionals having

> 15 years or more hands-on experience

> Proven track-record in the industry

> Real ability to pass on their expertise in a simple way.

> 42 experts from US, UK, the Netherlands, Germany... will train you in 2019


Sreeparna Das
Online Courses Program Director
at SpecialChem
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https://in.linkedin.com/in/sreeparnadas

**Join SpecialChem's Network of Experts! Looking to share your expertise and increase your visibility in the industry?**

**Contact Us!**

# Plastics & Elastomers Industry

Last year we all read a lot about the "plastics pollution problem" and it will be one of the key topics in 2019. The industry must join forces to ensure that we move towards more environmentally friendly solutions and answer the key question, "What can be done with waste plastic end of life?"

To meet the demands of circular economy, recycling challenges need to be addressed – specially ensuring the quality of recycled plastic vs virgin grades. Advances in Life Cycle Assessment (LCA) & inclusion of bio-based & biodegradable solutions in the mainstream applications will be critical as well.

Moving on, the shift towards digitization & industry 4.0 will continue to be strong. Complimented by smart material innovations, smarter manufacturing techniques like 4D printing are likely to come to the forefront. We also see a growth in digitalization of R&D with several *science-based predictive tools* coming in that make material selection process easier and faster!

Also, apart from the need to reduce emissions & vehicle weight, automotive OEMs will also look for solutions for *vehicles of the future* – be it autonomous vehicles or electric cars. This means more innovations with plastics and composites that allow more design freedom, while meeting the structural needs.

Other topics of importance include regulations around *food-contact plastics, safer FR solutions, energy storage solutions* & more...

We have many new & interesting courses in 2019:-

- **Bioplastics Blending and Compounding in Practice**
- **Food Packaging: Latest Barrier Solutions**
- **Rubber vs TPE: When to Select What?**
- **Halogen-free Flame Retardants: Optimal Selection for Better Performance**
- **Optimizing 3D Printing to Manufacture Thermoplastic Parts Faster NEW !**
- **Reactive Extrusion for Twin Screw Extrusion Pro**
- **PVC Plasticizer Alternatives: Selection & Use**
- **Migration Testing as per EU Regulations**
- **DSC Interpretation Made Easy for Plastics Optimization**
- **Introduction to Twin Screw Configuration and Design NEW !!** ***and many more...***

## Plan your Trainings Now!

### Save Money with Multi-seats Offers

Book seats in advance and use them whenever you want within 12 months

# Plastics & Elastomers Industry-

## Live Courses

*** Topics and dates may evolve along the year – please visit our website for updated information ***

**February 07**

### Bioplastics Blending and Compounding in Practice

Presented by Luis Roca

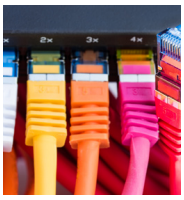
★★★★★ (15 ratings)

**February 21**

### Food Packaging: Latest Barrier Solutions

Presented by **Don Rosato**

★★★★☆ (177 ratings)



**February 26**

### Rubber vs TPE: When to Select What?

Presented by **Jeff Jansen**

★★★★☆ (24ratings)

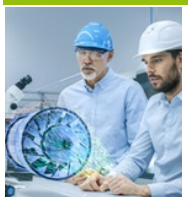
**February 27**

### Halogen-free Flame Retardants: Optimal Selection

Presented by **Richard Hull**

★★★★½ (127 ratings)

New!



**March 06**

### Optimizing 3D Printing Process to Manufacture Thermoplastic Parts

Presented by Bernard Alsteens

**March 12**

### Reactive Extrusion for Twin Screw Extrusion Professionals

Presented by Kenneth Russell

★★★★½ (71 ratings)

**April 02**

### PVC Plasticizer Alternatives: Selection & Use

Presented by Paul Daniels

★★★★☆ (34 ratings)

**April 17**

### Migration Testing as per EU Regulations

Presented by **Andreas Tschech**

★★★★☆ (41 ratings)

# Plastics & Elastomers Industry-

## Live Courses

*** Topics and dates may evolve along the year – please visit our website for updated information ***

April 25

### DSC Interpretation Made Easy for Plastics Optimization

Presented by **Jeff Jansen**

★★★★★ (127 ratings)

New!

May 14

### Introduction to Twin Screw Configuration and Design

Presented by **Kenneth Russell**

May 28

### Flame Retardant Behavior Characterization in Practice

Presented by **Richard Hull**

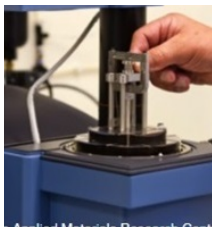
★★★★½ (66 ratings)

New!

June 06

### Plastics Failure Analysis - Polyamides

Presented by **Jeff Jansen**



June 12

### DMA Interpretation Made Easy for Plastics & Rubber Developments

Presented by Mark DeMeuse

★★★★☆ (105 ratings)

June 20

### Latest High Heat Polymer Resins & Applications Advances

Presented by Don Rosato

★★★★☆ (17 ratings)

New!

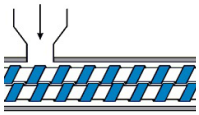
June 25

### Compounding of Recycled Plastics (PE, PP, PET)

Presented by Kenneth Russell

# Plastics & Elastomers Industry-

## On-demand Courses



### Twin Screw Extrusion: Troubleshooting Compounding Challenges

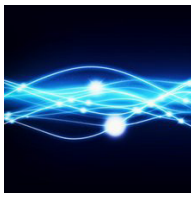
Presented by **Luis Roca**

★★★★½ (59 ratings)

### 3D Printing Resins: Latest Development Opportunities

Presented by **Don Rosato**

★★★★½ (71 ratings)



### Electrically Conductive Polymers: Latest Development Opportunities

Presented by **Don Rosato**

★★★★½ (141 ratings)

### How to Down-weight & Reduce Cost of Your PP Products?

Presented by **Dr Philip Jacoby**

★★★★½ (25 ratings)

### Troubleshooting Polyolefin Grafting via Reactive Extrusion

Presented by **Kenneth Russell**

★★★★½ (11 ratings)

### Cone Calorimeter: Quantifying Easily Flammability

Presented by **Richard Hull**

★★★★½ (144 ratings)

# Adhesives & Sealants Industry

Unsurprisingly, we'll see the impact of the need for a Circular Economy growing further in 2019. When it comes to adhesives, advances in technologies enabling 'debonding on demand' will be the need of the hour. The main challenge is to find the right balance between achieving service-life performance needs and debonding at end of life.

The other 2 key topics for 2019 are market-based – Automotive & Medical. With the automotive industry largely moving towards hybrid structures (using metals, plastics, composites...), the need to formulate adhesives that can bond multiple substrates will grow.

In case of medical adhesives, increasing internal and external applications (implant, tissue bonding, wearables, tools, dental, wound closure...) is driving their growth. With external applications, bonding challenges related to *adhesion to skin* need to be overcome. And with soft tissue adhesives, achieving optimal bond performance under moist condition will be crucial (with biocompatibility & biodegradability being important pre-conditions).

For the PU industry, 2019 is also an important year w.r.t. *REACH restrictions on diisocyanates*.

And based on the popularity of our courses, we also see continued interest in thermally conductive adhesives, avoiding migration of *NIAS in food-contact adhesives*, maximizing HMA cost : performance ratio and more...

We have selected online courses in 2019, that will help you meet your targets faster and adapt smartly to market requirements. Learn how to apply selective formulation strategies, as well as how to get more from your tests.

- **US Food Contact Regulation: Easier Compliance for Adhesives & Coatings**
- **Flexible Packaging Adhesives: Hands-on Formulation Guide for Today's Needs**
- **Formulation Strategies for Multi-Substrate Bonding NEW !**
- **Electrically and Thermally Conductive Adhesives Formulation Strategies**
- **Structural Acrylic Adhesive Formulation and Use NEW !** *and much more...*

## Plan your Trainings Now!

### Save Money with Multi-seats Offers

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# Adhesives & Sealants Industry-

## Live Courses

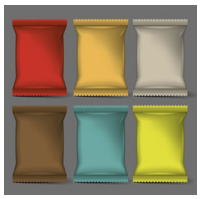
*** Topics and dates may evolve along the year – please visit our website for updated information ***

January 30

### US Food Contact Regulation: Easier Compliance

Presented by **Andreas Tschech**

★★★★★ (65 ratings)



February 20

### Flexible Packaging Adhesives: Hands-on Formulation Guide

Presented by **Edward Petrie**

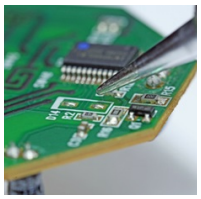
★★★★☆ (11 ratings)

New!

April 03

### Formulation Strategies for Multi-Substrate Bonding

Presented by **Edward Petrie**



June 13

### Electrically and Thermally Conductive Adhesives

Presented by **Edward Petrie**

★★★★½ (50 ratings)

New!

July 11

### Structural Acrylic Adhesive Formulation and Use

Presented by **Edward Petrie**

# Adhesives & Sealants Industry-

## On-demand Courses

### Debonding on Demand Structural Adhesives: Strategies & Future Opportunities

Presented by **Maxime Olive**

★★★★½ (45 ratings)

### Hot Melts Adhesives Optimization for Quality at Lower Costs

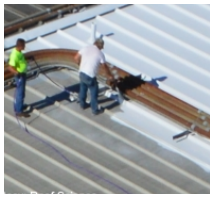
Presented by **Edward Petrie**

★★★★½ (50 ratings)

### Bonding Dissimilar Materials: How to Reduce Internal Stress Levels

Presented by **Edward Petrie**

★★★★★ (18 ratings)



### Formulating Silane Hybrid Adhesives & Coatings

Presented by **John Duffy**

★★★★★ (20 ratings)

### PSA Testing: Standard Tests When There Is No Standard

Presented by **Edward Petrie**

★★★★½ (9 ratings)

### Biocides in Waterborne Adhesives: How to Select in Today's Regulatory Environment?

Presented by **Edward Petrie**

★★★★½ (13 ratings)

# Coatings & Inks Industry

The industry continues to embrace new technologies to move towards digitalization of various segments. And the need to further improve accuracy & reduce time to market is driving the digital transformation of R&D as well – and we expect to see lots of updates in 2019.

With the in-flow of new data-driven, science-based predictive tools & apps, material selection is becoming easier and coatings formulators can quit the old trial & error method!

Also, the shift towards digital printing from flexographic & gravure seems to be strong with lot of interest seen in how to formulate inkjet inks.

Safety and regulations would continue to drive the need for non-toxic solvents, bio-based solutions, safer PU solutions... and we are likely to see innovations enabling biocide-free coatings. Also, thanks to its environmental compliance & high throughput, radiation curing (particularly UV-LED cured coatings) will witness a boost.

Based on popularity of our courses, pigment dispersion, TiO2 optimization & tackling adhesion issues will also be important topics for 2019.

In terms of coatings technology, hybridization to develop smart functional coatings continues to be an exciting segment. The spotlight will be key functions like anti-reflective, anti-ice, self-healing, barrier and more...
We have many new & interesting courses in 2019:-

**> Rheology & Viscosity Made Easy**
**> US Food Contact Regulation: Easier Compliance for Adhesives & Coatings**
**> Testing Rheology & Viscosity in Practice**
**> Coatings 101: Introduction to Paints and Coatings Technology NEW !**
**> Formulating Modern Eco-Solvent Inkjet Inks**
**> Smart Coatings: Update on Current & Future Opportunities**
**> Simplifying Physical Chemistry for Faster Problem Solving**
**> How to Speed Up Coatings Formulation R&D with Digital Tools NEW ! and more...**

## Plan your Trainings Now!

Save Money with Multi-seats Offers

Book seats in advance and use them whenever you want within 12 months

**Select your cost saving package**

# Coatings & Inks Industry

## Live Courses

*** Topics and dates can evolve along the year – please visit our website for updated information ***

### January 22
**Rheology & Viscosity Made Easy**

Presented by **Neil Cunningham**

★★★★½ (142 ratings)

### January 30
**US Food Contact Regulation: Easier Compliance for Adhesives & Coatings**

Presented by **Andreas Tschech**

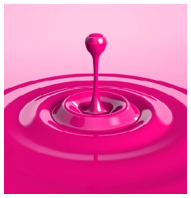
★★★★½ (65 ratings)

### February 12
**Testing Rheology & Viscosity in Practice**

Presented by **Neil Cunningham**

★★★★½ (115 ratings)

New!



### February 14
**Coatings 101: Introduction to Paints and Coatings Technology**

Presented by Jochum Beetsma

### March 07
**Formulating Modern Eco-Solvent Inkjet Inks**

Presented by Terence Kenneth

★★★★★ (12 ratings)

### March 27
**Smart Coatings: Update on Current & Future Opportunities**

Presented by Mike Clingerman

★★★★½ (190 ratings)

### April 11
**Simplifying Physical Chemistry for Faster Problem Solving**

Presented by **Jochum Beetsma**

★★★★☆ (63 ratings)

New!

### May 15
**How to Speed Up Coatings Formulation R&D with Digital Tools**

Presented by **Francois Magnin**

### May 22
**Water-based film inks: Advanced Formulation**

Presented by Terence Kenneth

★★★★★ (70 ratings)

### June 11
**TiO2 Optimization: Practical Formulation Strategies**

Presented by Jochum Beetsma

★★★★½ (85 ratings)

# Coatings & Inks Industry

## On-demand Courses

*** Topics and dates can evolve along the year – please visit our website for updated information ***

### UV/ EB Coatings: Optimizing Curing in Practice

Presented by **Mike Clingerman**

★★★★½ (53 ratings)

### Replacing Solvents in Industrial Coatings with Solubility Parameters

Presented by **François Magnin**

★★★★½ (26 ratings)

### Introduction to Pigment Dispersion and Stabilization

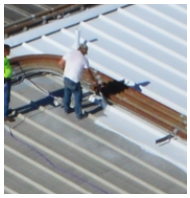
Presented by **Jochum Beetsma**

★★★★½ (17 ratings)

### UV Inkjet Ink Formulation: Best Practices & Troubleshooting Tips

Presented by Terence Kenneth

★★★★★ (05 ratings)



### Formulating Silane Hybrid Adhesives & Coatings

Presented by **John Duffy**

★★★★½ (20 ratings)

### Bio-based Ink Formulation in Practice

Presented by **Terence Kenneth**

★★★★★ (20 ratings)

### Design of Experiment: Step-by-Step Approach for Easy Implementation

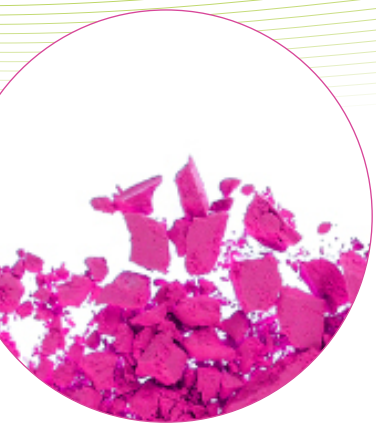
Presented by **Rogier van Duin**

★★★★☆ (106 ratings)

### Design of Experiment: Easy Implementation in Practice

Presented by Rogier van Duin

★★★★☆ (71 ratings)



# Cosmetics Industry

Personal care industry is looking to evolve further into Personalized Care Industry as we move into 2019. This is aided by growing voice of the educated consumer & digitalization. An important question to answer in 2019: Will we now formulate for the computer (algorithms) or the customer?

Epigenetics also offers another level of customization - a technology that can help modify an individual's cellular activity. Current actives target anti-ageing but further advances can be expected going forward.

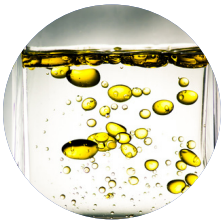
The importance of Sustainability & Green Cosmetics will remain strong. Along with using natural ingredients, the industry must also think about responsibly sourcing the raw materials and being accountable for the end-of-life.

We also look forward to further clarity on claims around Skin Microbiome in 2019. The industry experts are currently divided on the potential of this topic.
And with growing urbanization, it would be interesting to keep a tab on advances in stress-free beauty claims, blue light protection, anti-pollution claims and more...

Check the 2019 program for many new & interesting courses:

> Sensory Claims in Cosmetics: Supporting Ingredients & Tests
> Emulsifiers & Surfactant Selection for Stable Cosmetics
> Formulating Antiperspirants in Practice for Regulatory Compliance
> Understanding Skin Physiology to Formulate Men Care Products Better NEW !
> Peptides in Cosmetics: How to best innovate with current options?
> Formulating Natural Sun Care Products
> High SPF Sun Care Formulation Strategy
> Cosmetic Claim Substantiation: Do's & Don'ts
> COSMOS Standard: How to Get Organic or Natural Certification Today? ...and more...

## Plan your Trainings Now!



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**Select your cost saving package**

# Cosmetics Industry

## Live Courses

*** Topics and dates can evolve along the year – please visit our website for updated information ***

January 29

### Sensorial Cosmetics: How to Support Claims in Practice

Presented by **Karl Lintner**

★★★★☆ (55 ratings)

February 06

### Emulsifiers & Surfactant Selection for Stable Cosmetics

Presented by **Mark Chandler**

★★★★½ (41 ratings)

February 13

### Formulating Antiperspirants in Practice for Regulatory Compliance

Presented by Eric Abrutyn

★★★★½ (24 ratings)

New!

February 28

### Understanding Skin Physiology to Formulate Men Care Products Better

Presented by **Giorgio Dell'Acqua**

March 14

### Peptides in Cosmetics: How to best innovate with current options?

Presented by **Karl Lintner**

★★★★½ (102 ratings)

March 28

### Formulating Natural Suncare Products

Presented by **Julian Hewitt**

★★★★★ (35 ratings)

# Cosmetics Industry

## Live Courses

*** Topics and dates can evolve along the year – please visit our website for updated information ***

May 07

### High SPF Sun Care Formulation Strategy

Presented byJulian Hewitt

★★★★½ (151 ratings)

May 23

### Cosmetic Claim Substantiation: Do's & Don'ts

Presented by Karl Lintner

★★★★½ (71 ratings)

June 19

### COSMOS Standard: How to Get Organic or Natural Certification Today?

Presented by Dr. Barbara Olioso

★★★★½ (28 ratings)

June 26

### Applying Controlled Release Technology in Cosmetics

Presented by **Eric Abrutyn**

★★★★½ (36 ratings)

July 02

### Formulating for Efficacy: Improving Delivery of Cosmetic Ingredient

Presented by **Mark Chandler**

★★★★½ (102 ratings)

July 10

### UVA/SPF: Optimizing your Test Protocols

Presented by **Julian Hewitt**

★★★★½ (75 ratings)

# Cosmetics Industry

## On-demand Courses

*** Topics and dates can evolve along the year – please visit our website for updated information ***

New!

### Cosmetic Sustainability Claims: Pitfalls and Legislation

Presented by Dr Theresa Callaghan

New!

### Designing Multi-functional Cosmetics with the Right Selection of Polymers

Presented by **Eric Abrutyn**

### Switching to Green Alternatives for Cosmetic Preservation

Presented by Dr. Barbara Olioso

★★★★★ (13 ratings)

### Color Selection: How to Formulate Make-up / Color Cosmetics?

Presented by **Belinda Carli**

★★★★½ (102 ratings)

### Anti-pollution Claims: How to test and document them?

Presented by **Karl Lintner**

★★★★½ (13 ratings)

### Solving Cosmetic Emulsion Stability Issues Faster

Presented by **Minou Nabavi**

★★★★½ (40 ratings)

# Our Team!

**Sreeparna Das**
Online Courses Program Director
*https://in.linkedin.com/in/sreeparnadas*

**Prateeksha Raj**
Online Promotion Executive
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**Shalini Sharma**
Online Promotion Executive
*https://www.linkedin.com/in/shalini-sharma*

**Praveen Pandey**
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Thank you for viewing our 2019 Program. We hope to see you soon!

**A Question?**
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