2019 Online Courses Program

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

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

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

   REGISTER > RECEIVE > GET TRAINED > INTERACT WITH EXPERT

«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
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

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)

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!)

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.

Purchase your Cost-saving Packages here!
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.

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

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

Speakers rated good or higher by 98% of 2018 attendees

Sreeparna Das
Online Courses Program Director at SpecialChem
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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 ***

<table>
<thead>
<tr>
<th>Date</th>
<th>Course Title</th>
<th>Presenter</th>
<th>Rating</th>
<th>Total Ratings</th>
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<tbody>
<tr>
<td>February 07</td>
<td>Bioplastics Blending and Compounding in Practice</td>
<td>Luis Roca</td>
<td>★★★★★</td>
<td>15</td>
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<tr>
<td>February 21</td>
<td>Food Packaging: Latest Barrier Solutions</td>
<td>Don Rosato</td>
<td>★★★★★</td>
<td>177</td>
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<tr>
<td>February 26</td>
<td>Rubber vs TPE: When to Select What?</td>
<td>Jeff Jansen</td>
<td>★★★★★</td>
<td>24</td>
</tr>
<tr>
<td>February 27</td>
<td>Halogen-free Flame Retardants: Optimal Selection</td>
<td>Richard Hull</td>
<td>★★★★★</td>
<td>127</td>
</tr>
<tr>
<td>March 06</td>
<td>Optimizing 3D Printing Process to Manufacture Thermoplastic Parts</td>
<td>Bernard Alsteens</td>
<td></td>
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</tr>
<tr>
<td>March 12</td>
<td>Reactive Extrusion for Twin Screw Extrusion Professionals</td>
<td>Kenneth Russell</td>
<td>★★★★★</td>
<td>71</td>
</tr>
<tr>
<td>April 02</td>
<td>PVC Plasticizer Alternatives: Selection &amp; Use</td>
<td>Paul Daniels</td>
<td>★★★★★</td>
<td>34</td>
</tr>
<tr>
<td>April 17</td>
<td>Migration Testing as per EU Regulations</td>
<td>Andreas Tschech</td>
<td>★★★★★</td>
<td>41</td>
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### Live Courses

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Course</th>
<th>Presentator</th>
<th>Rating</th>
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<tbody>
<tr>
<td>April 25</td>
<td>DSC Interpretation Made Easy for Plastics Optimization</td>
<td>Jeff Jansen</td>
<td>4.5/5</td>
</tr>
<tr>
<td>May 14</td>
<td>Introduction to Twin Screw Configuration and Design</td>
<td>Kenneth Russell</td>
<td>4.4/5</td>
</tr>
<tr>
<td>May 28</td>
<td>Flame Retardant Behavior Characterization in Practice</td>
<td>Richard Hull</td>
<td>4.3/5</td>
</tr>
<tr>
<td>June 06</td>
<td>Plastics Failure Analysis - Polyamides</td>
<td>Jeff Jansen</td>
<td>4.2/5</td>
</tr>
<tr>
<td>June 12</td>
<td>DMA Interpretation Made Easy for Plastics &amp; Rubber Developments</td>
<td>Mark DeMeuse</td>
<td>4.1/5</td>
</tr>
<tr>
<td>June 20</td>
<td>Latest High Heat Polymer Resins &amp; Applications Advances</td>
<td>Don Rosato</td>
<td>4.0/5</td>
</tr>
<tr>
<td>June 25</td>
<td>Compounding of Recycled Plastics (PE, PP, PET)</td>
<td>Kenneth Russell</td>
<td>3.9/5</td>
</tr>
</tbody>
</table>
Plastics & Elastomers Industry-On-demand Courses

**Twin Screw Extrusion: Troubleshooting Compounding Challenges**  
Presented by Luis Roca  
★★★★☆ (59 ratings)

**3D Printing Resins: Latest Development Opportunities**  
Presented by Don Rosato  
★★★★☆ (71 ratings)

**Electrically Conductive Polymers: Latest Development Opportunities**  
Presented by Don Rosato  
★★★★☆ (141 ratings)

**How to Down-weight & Reduce Cost of Your PP Products?**  
Presented by Dr Philip Jacoby  
★★★★☆ (25 ratings)

**Troubleshooting Polyolefin Grafting via Reactive Extrusion**  
Presented by Kenneth Russell  
★★★★☆ (11 ratings)

**Cone Calorimeter: Quantifying Easily Flammability**  
Presented by Richard Hull  
★★★★☆ (144 ratings)
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
> Formulation Strategies for Multi-Substrate Bonding NEW !
> Electrically and Thermally Conductive Adhesives Formulation Strategies
> Structural Acrylic Adhesive Formulation and Use NEW ! and much more...

Save Money with Multi-seats Offers
Book seats in advance and use them whenever you want within 12 months
### Adhesives & Sealants Industry - Live Courses

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Course Title</th>
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<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>January 30</td>
<td>US Food Contact Regulation: Easier Compliance</td>
<td>Andreas Tschech</td>
<td>5 stars (65 ratings)</td>
</tr>
<tr>
<td>February 20</td>
<td>Flexible Packaging Adhesives: Hands-on Formulation Guide</td>
<td>Edward Petrie</td>
<td>4 stars (11 ratings)</td>
</tr>
<tr>
<td>April 03</td>
<td>Formulation Strategies for Multi-Substrate Bonding</td>
<td>Edward Petrie</td>
<td></td>
</tr>
<tr>
<td>June 13</td>
<td>Electrically and Thermally Conductive Adhesives</td>
<td>Edward Petrie</td>
<td>4 stars (50 ratings)</td>
</tr>
<tr>
<td>July 11</td>
<td>Structural Acrylic Adhesive Formulation and Use</td>
<td>Edward Petrie</td>
<td></td>
</tr>
</tbody>
</table>
Adhesives & Sealants Industry-
On-demand Courses

Debonding on Demand
Structural Adhesives: Strategies & Future Opportunities
Presented by Maxime Olive
★★★★★ (45 ratings)

Hot Melts Adhesives Optimization for Quality at Lower Costs
Presented by Edward Petrie
★★★★★ (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
★★★★★ (9 ratings)

Biocides in Waterborne Adhesives: How to Select in Today’s Regulatory Environment?
Presented by Edward Petrie
★★★★★ (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...

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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

January 30
US Food Contact Regulation: Easier Compliance for Adhesives & Coatings
Presented by Andreas Tschech

February 12
Testing Rheology & Viscosity in Practice
Presented by Neil Cunningham

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

March 27
Smart Coatings: Update on Current & Future Opportunities
Presented by Mike Clingerman

April 11
Simplifying Physical Chemistry for Faster Problem Solving
Presented by Jochum Beetsma

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

June 11
TiO2 Optimization: Practical Formulation Strategies
Presented by Jochum Beetsma

Online Courses
http://www.specialchem.com/online-courses
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
⭐⭐⭐⭐⭐ (53 ratings)

Replacing Solvents in Industrial Coatings with Solubility Parameters
Presented by François Magnin
⭐⭐⭐⭐⭐ (26 ratings)

Introduction to Pigment Dispersion and Stabilization
Presented by Jochum Beetsma
⭐⭐⭐⭐ (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
⭐⭐⭐⭐ (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...

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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
★★★★☆ (41 ratings)

February 13
Formulating Antiperspirants in Practice for Regulatory Compliance
Presented by Eric Abrutyn
★★★★★ (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
★★★★☆ (102 ratings)

March 28
Formulating Natural Suncare Products
Presented by Julian Hewitt
★★★★☆ (35 ratings)
## Live Courses

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<table>
<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>May 07</td>
<td>High SPF Sun Care Formulation Strategy</td>
<td>Julian Hewitt</td>
<td>5/5</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>(151 ratings)</td>
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<tr>
<td>May 23</td>
<td>Cosmetic Claim Substantiation: Do’s &amp; Don’ts</td>
<td>Karl Lintner</td>
<td>4/5</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>(71 ratings)</td>
</tr>
<tr>
<td>June 19</td>
<td>COSMOS Standard: How to Get Organic or Natural Certification Today?</td>
<td>Dr. Barbara Olioso</td>
<td>4/5</td>
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<tr>
<td></td>
<td></td>
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<td>(28 ratings)</td>
</tr>
<tr>
<td>June 26</td>
<td>Applying Controlled Release Technology in Cosmetics</td>
<td>Eric Abrutyn</td>
<td>4/5</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>(36 ratings)</td>
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<tr>
<td>July 02</td>
<td>Formulating for Efficacy: Improving Delivery of Cosmetic Ingredient</td>
<td>Mark Chandler</td>
<td>4/5</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>(102 ratings)</td>
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<tr>
<td>July 10</td>
<td>UVA/SPF: Optimizing your Test Protocols</td>
<td>Julian Hewitt</td>
<td>4/5</td>
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<tr>
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<td>(75 ratings)</td>
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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

(102 ratings)

Anti-pollution Claims: How to test and document them?
Presented by Karl Lintner

(13 ratings)

Solving Cosmetic Emulsion Stability Issues Faster
Presented by Minou Nabavi

(40 ratings)

Online Courses

http://www.specialchem.com/online-courses
Our Team!

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

A Question?
Feel free to contact us at online-courses@specialchem.com