2020 Online Courses Program

Be It Tricky Formulations, Right Methodology, or Latest Innovations

With Us
You Always Stay at the Forefront!
Welcome to a learning packed 2020!

2020 marks the beginning of a new decade and to make sure that you start on a positive note, we are ready with a power-packed training program for you.

Get a healthy dose of our specially curated online courses to boost your skills and tackle your technical challenges faster. Plan now and train all year round with our robust network of international industry experts without putting a dent in your travel budget!

What can you expect to learn in 2020?

Whether you wish to get guidance to select the right material for your formulation, find proven solutions to critical challenges or stay up-to-date with the latest trends & innovations, this is your one-stop-shop! Don’t miss the opportunity to take our popular courses and interact live with the experts to get answers directly from them.

Looking to train your whole team?

A library of 170+ high-quality courses offers you a platform to design customized training plans for your teams. And this doesn’t need to be heavy on your pocket! Just opt for our cost-saving packages.

Feedback & suggestions welcome!

To our long-time attendees, a special thank YOU! To further meet your needs better, we would love to receive your feedback and suggestions. We would also like to welcome on-board our new users.

Hope you enjoy these courses as much as we do in creating them!

Sreeparna Das
Online Courses Program Director
SpecialChem

Of course, we can’t fit everything we have to say into this short guide, so do visit the website for full details, updates and to book.
Why Train with SpecialChem? ............................... Pages 04

Online Courses: Live & On-demand

Plastics & Elastomers Industry ................................. Pages 05 to 07

Adhesive & Sealants Industry .................................. Pages 08 to 10

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Smart Cost Saving Packages ..................................... Pages 17
Why train with SpecialChem?

1. We are training more than **2000 professionals** every year and **97% of them were satisfied** with our Online Courses 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...

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**

**Attending an e-Training is EASY!**

**REGISTER ➤ RECEIVE ➤ GET TRAINED ➤ INTERACT**

- PDF Slides & joining details
- with the 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

http://www.specialchem.com/online-courses
K 2019, the biggest trade-fair in the plastics & rubber industry, gave us a peek into what will be of prime importance in 2020: Recycling, Digitalization, Designing a Smarter Future!

The need to boost recycling, recyclability & the quality of recycled grades has never been higher. OEMs are now demanding increased recycled content in the final parts and this will drive innovations w.r.t material, technology & processes. Development of bio-based alternatives to engineering plastics will be critical as well. In the packaging segment, R&D professionals will need to find the right balance between barrier properties & recyclability.

In 2020, we will also witness further acceleration in digital transformation of the complete value chain (R&D => Manufacturing & Logistics => Sales & Marketing). Growing integration of AI and data sciences will enable faster production & sustainable use of resources.

Technological advances in mobility (electric vehicles & planes) and electronics (5G, battery innovations, smart screens) will drive the need for smarter polymer solutions.

Topics of continued importance include regulations around food-contact plastics, safer FR solutions, 3D Printing advances, thermal conductivity & more...

Gear up for the next year with our specialized courses:

- Electrically Conductive Polymers: Innovations Round-up 2020
- Bioplastics Blending and Compounding in Practice
- PVC Plasticizer Alternatives: Selection & Use
- DSC Interpretation Made Easy for Plastics Optimization
- Migration Testing as per EU Regulations
- Food Packaging: Latest Barrier Solutions
- DMA Interpretation Made Easy for Plastics & Rubber Developments
- Bioplastic Tour: 2020 Innovations & Trends (14th Edition)... and much more...

Plan your Trainings Now!

Save Money with Multi-seats Offers
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Plastics & Elastomers Industry-
Live Courses

*** Topics and dates may evolve along the year – please visit our website for up-to-date information ***

February 13
Electrically Conductive Polymers: Latest Development Opportunities
Presented by Don Rosato

February 26
Bioplastics Blending and Compounding in Practice
Presented by Luis Roca

March 05
PVC Plasticizer Alternatives: Selection & Use
Presented by Paul Daniels

March 11
DSC Interpretation Made Easy for Plastics Optimization
Presented by Jeffrey Jansen

March 26
Migration Testing as per EU Regulations
Presented by Andreas Tschech

April 09
Food Packaging: Latest Barrier Solutions
Presented by Don Rosato

May 13
DMA Interpretation Made Easy for Plastics & Rubber Developments
Presented by Mark DeMeuse

June 09
Bioplastic Tour: 2020 Innovations & Trends (14th Edition)
Presented by Don Rosato
Plastics & Elastomers Industry-
On-demand Courses- access anytime, anywhere!

Reactive Extrusion for Twin Screw Extrusion Professionals
Presented by Kenneth W Russell

Increasing Value of Recycled Plastics Through Compounding & Reactive Extrusion
Presented by Kenneth W Russell

Halogen-free Flame Retardants: Optimal Selection for Better Performance
Presented by T Richard Hull

Discoloration of PVC Products: How to Minimize or Avoid It
Presented by Michael Schiller

Rubber vs TPE: When to Select What?
Presented by Jeffrey Jansen

Cone Calorimeter: Quantifying Easily Flammability & Heat Release Rate
Presented by Richard Hull

Online Courses
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The need to comply with Circular Economy demands will further intensify in 2020 for the adhesives & sealants industry. This means that ‘debonding on demand’ will be a must-have feature for structural adhesives. Formulators will need to find ways to balance bond strength (service life) & reversibility (end of life).

To meet some of the key performance demands, technologies that will be in the forefront next year include: **reactive hot melt adhesives** (*faster cure, high bond strength, wide temperature tolerance*) and structural acrylic adhesives (bonding low surface energy plastics).

And to meet the need for eliminating the risk of unreacted monomeric isocyanate in PU formulations, alternate technologies like **silane hybrid polymer** will continue to be in the spotlight.

We also expect to see continued interest in **thermally conductive adhesives**, food-contact regulations and managing the problem of migration, maximizing adhesion and more...

Check out our 2020 courses & learn how to apply innovative formulation strategies:

- Rheology & Viscosity Made Easy
- US Food Contact Regulation: Easier Compliance for Adhesives & Coatings
- Testing Rheology & Viscosity in Practice
- Formulating Reactive Hot Melt Adhesives
- Migration Testing as per EU Regulations
- Electrically and Thermally Conductive Adhesives Formulation Strategies
- Structural Acrylic Adhesive Formulation and Use
- Debonding on Demand Structural Adhesives: Strategies & Future Opportunities...

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[Select your cost saving package]

[Online Courses](http://www.specialchem.com/online-courses)
Adhesives & Sealants Industry-
Live Courses

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

January 23
Rheology & Viscosity Made Easy
Presented by Neil Cunningham

February 06
Testing Rheology & Viscosity in Practice
Presented by Neil Cunningham

March 26
Migration Testing as per EU Regulations
Presented by Andreas Tschech

April 02
Electrically and Thermally Conductive Adhesives
Presented by Edward Petrie

June 11
Structural Acrylic Adhesive Formulation and Use
Presented by Edward Petrie

July 02
Debonding on Demand Structural Adhesives: Future Opportunities
Presented by Maxime Olive

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

February 20
Formulating Reactive Hot Melt Adhesives
Presented by Edward Petrie

Online Courses
http://www.specialchem.com/online-courses
Adhesives & Sealants Industry-
On-demand Courses- access anytime, anywhere!

- **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)

- **Flexible Packaging Adhesives: Hands-on Formulation Guide**
  - Presented by Edward Petrie
  - ★★★★★ (11 ratings)

- **Silyl Modified Polymers in Adhesives, Sealants & Coatings for High-performance & Safety**
  - Presented by William D Arendt

- **Formulation Strategies for Multi-Substrate Bonding**
  - Presented by Edward M. Petrie
  - ★★★★★ (5 ratings)

- **Bonding Dissimilar Materials: How to Reduce Internal Stress Levels**
  - Presented by Edward Petrie
  - ★★★★★ (18 ratings)
The need to further improve accuracy & reduce time to market will continue to drive the **digital transformation of R&D** in 2020 as well. 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!

In terms of coatings technology: nanotech-enabled **smart functional coatings**, direct to metal coatings, and high heat & flame-retardant systems continue to be an exciting segments to watch out for.

**Stricter VOC regulations** will continue to drive the need for high performance water-based systems (green solvents), **radiation curing** (UV-LED cured) and powder coatings. And, migration testing skills will be critical in **food contact applications** to ensure regulatory compliance.

Topics of continued importance include rheology testing, **TiO2 optimization**, avoiding coatings film defects, **corrosion protection**, inkjet inks and more.

Take a look at our 2020 program to strengthen your formulation skills:-

> 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  
> Smart Functional Coatings: Update on Current & Future Opportunities  
> Simplifying Physical Chemistry for Faster Problem Solving  
> Migration Testing as per EU Regulations  
> Bio-based Ink Formulation in Practice and more...

**Plan your Trainings Now!**

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

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**Online Courses**  
http://www.specialchem.com/online-courses
Coatings & Inks Industry-

Live Courses

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

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<td><strong>Rheology &amp; Viscosity Made Easy</strong>&lt;br&gt;Presented by Neil Cunningham</td>
<td><strong>US Food Contact Regulation: Easier Compliance for Adhesives &amp; Coatings</strong>&lt;br&gt;Presented by Andreas Tschech</td>
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<td><strong>Coatings 101: Introduction to Paints and Coatings Technology</strong>&lt;br&gt;Presented by Jochum Beetsma</td>
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<td><strong>Smart Functional Coatings: Current &amp; Future Opportunities</strong>&lt;br&gt;Presented by Mike Clingerman</td>
<td><strong>Simplifying Physical Chemistry for Faster Problem Solving</strong>&lt;br&gt;Presented by Jochum Beetsma</td>
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<td><strong>Migration Testing as per EU Regulations</strong>&lt;br&gt;Presented by Andreas Tschech</td>
<td><strong>Bio-based Ink Formulation in Practice</strong>&lt;br&gt;Presented by Terence Kenneth</td>
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<td>★★★★★ (50 ratings)</td>
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Coatings & Inks Industry-
On-demand Courses- access anytime, anywhere!

Aqueous Inkjet Inks: Accelerate Formulation with Best Practices
Presented by Terence Kenneth

Solving Adhesion Issues of Coatings & Inks
Presented by Jochum Beetsma
★★★★★ (261 ratings)

UV/EB Coatings & Inks: Optimizing Curing in Practice
Presented by Mike Clingerman
★★★★★ (53 ratings)

Introduction to Pigment Dispersion and Stabilization
Presented by Jochum Beetsma
★★★★★ (17 ratings)

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

Maximizing Adhesion in Adhesives & Coatings: Formulations & Processes
Presented by Edward Petrie
Cosmetics Industry

In the cosmetics industry, **natural & sustainable claims** have evolved from being a trend to becoming mainstream, largely due to rising consumer awareness (millennials, generation Z...). In 2020, the scope will continue to widen: **ethical sourcing of raw materials => certifications (COSMOS, NATRUE...) => sustainable packaging => end of life environmental impact.**

This demand for natural & clean beauty has fueled the rise of **Indie brands.** Some of the strong product claims here include water-free (solid shampoo bars), vegan, locally-sourced ingredients, etc.

Also important to today’s consumers is **healthy aging and long-term wellness.** Consequently, sensorial claims are on the rise. As we enter 2020, watch out for advances in testing that help substantiate these claims (brain to skin connection).

The combination of the mindful beauty trend with minimalism has led to the resurgence of **J-beauty** & popularity of ‘made in Japan’ cosmetics.

Other interesting topics to keep a tab on next year include the role of **digitalization** in accelerating the time to market, in-vitro SPF method in sun-care, rise of **dermocosmetics** (prevention & protection) for sensitive skin & hair against external agents like pollution, and more...

Check out our 2020 courses to learn more with experts:

- Rheology & Viscosity Made Easy
- Formulating Antiperspirants & Deodorants in Practice for Regulatory Compliance
- Testing Rheology & Viscosity in Practice
- Sensorial Cosmetics: How to Support Claims in Practice
- Emulsifiers & Surfactant Selection for Stable Cosmetics
- Formulating Natural Sun Care Products
- Cosmetic Claim Substantiation: Do’s & Don’ts...and more...

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Cosmetics Industry -
Live Courses

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January 23
Rheology & Viscosity Made Easy
Presented by Neil Cunningham

February 05
Formulating Antiperspirants & Deodorants in Practice
Presented by Eric Abrutyn

February 06
Testing Rheology & Viscosity in Practice
Presented by Neil Cunningham

February 12
Sensory Claims in Cosmetics: Supporting Ingredients & Tests
Presented by Karl Lintner

February 19
Emulsifiers & Surfactant Selection for Stable Cosmetics
Presented by Julian Hewitt

March 04
Formulating Natural Sun Care Products
Presented by Julian Hewitt

April 01
Cosmetic Claim Substantiation: Do’s & Don’ts
Presented by Karl Lintner

April 15
Skin Moisturization: Practical Ingredients Selection & Formulation
Presented by Eric Abrutyn

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Cosmetics Industry-
On-demand Courses- access anytime, anywhere!

- **Anti-pollution Claims: How to test and document them?**
  - Presented by Karl Lintner
  - ★★★★★ (13 ratings)

- **COSMOS Standard: How to Get Organic or Natural Certification Today?**
  - Presented by Dr. Barbara Olioso
  - ★★★★★ (28 ratings)

- **Switching to Green Alternatives for Cosmetic Preservation**
  - Presented by Dr. Barbara Olioso
  - ★★★★★ (13 ratings)

- **Solving Cosmetic Emulsion Stability Issues Faster**
  - Presented by Minou Nabavi
  - ★★★★★ (40 ratings)

- **Cosmetic Sustainability Claims: Possibilities, Pitfalls and Legislation**
  - Presented by Dr. Theresa Callaghan
  - ★★★★★ (39 ratings)

- **High SPF Sun Care Formulation Strategy**
  - Presented by Julian Hewitt
  - ★★★★★ (151 ratings)

[http://www.specialchem.com/online-courses](http://www.specialchem.com/online-courses)
Smart ideas to attend Online Courses

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

> 10 Online Courses Credits
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Unlimited Access to Live and On-demand 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 170 courses and save tens of thousands of Euros!)

Each 2019 subscriber has saved 23 K€ on average!

Wish you a year full of Great Learnings. See you online!

“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.
Online Courses Team!

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Ayushi Bhatnagar
Product Marketing Manager
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Praveen Pandey
Customer Engagement Manager
https://www.linkedin.com/in/praveen-pandey

Thank you for viewing our 2020 Program. We hope to see you soon!

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