SPECIALTY COATING SYSTEMS™

GLOBAL COVERAGE

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SCS Opens New Coating Center in Mainland Europe

Specialty Coating Systems is pleased to announce the opening of its newest Parylene coating facility, located in Pilsen, Czech Republic, approximately 100 km southwest of Prague. According to Kevin Walker, SCS Managing Director of Europe, "The new coating facility in Pilsen will meet the needs of SCS' mainland Europe customer base and enable the company to provide high quality Parylene coating services to a broader regional group of medical device, electronics, automotive and military/aerospace customers."

The 930 sq-m facility is SCS' third European coating facility, joining existing sites in the United Kingdom and Ireland, and represents the company's tenth coating center worldwide. The two-level facility is comprised of dedicated rooms for shipping/receiving, cleaning and component preparation, and a large production area for coating, in addition to several offices and a conference room.

"This expansion into mainland Europe is an outgrowth of SCS' commitment to our customers," said Terry Bush, SCS President and CEO. "We take pride in supporting our worldwide customers with regional state-of-the-art coating facilities, which are able to support the highest quality services and standards that customers have come to expect from SCS."

SCS' new location in Pilsen, Czech Republic

SCS Announces Fall Parylene Seminar Schedule

Registration is now open for Parylene seminars being held this fall in Europe. Participants from all disciplines – industrial, professional and academic – are welcome to attend and learn about the variants, properties and certifications of Parylene, how it is applied, and the benefits achieved in various medical device, electronics, automotive and military/aerospace applications. Upcoming seminar locations include:

Copenhagen, Denmark – October 18
Brussels, Belgium – October 21
Paris, France – October 22

The fall seminars are a continuation of SCS' commitment to educate the industry about Parylene. SCS held similar seminars in Europe earlier this year and most recently, in June, hosted a full room of participants in Costa Rica.

SCS Parylene seminars are free of charge and lunch is provided. Registrations are confirmed on a first come, first served basis at www.SCSseminars.com. For more information or to request a Parylene Seminar in your area, please contact Lonny Wolgemuth at 317.244.1200, ext. 271.

Lonny Wolgemuth speaking at June Seminar in Costa Rica

Parylene Facilitates Advances in Intraocular Implant Technology

As medical devices decrease in size, their extremely small dimensions likely rule out the use of conventional conformal coatings. These devices are simply too small to dip, spray or brush. Additionally, for implantable devices, any protective coating must be biocompatible. Parylene conformal coatings offer a biocompatible, ultra-thin coating solution that is well suited for these applications. Intraocular implants are an example of devices for which Parylene is an ideal coating.

Age-related macular degeneration (AMD) is a condition in which the light-sensitive cells and supportive tissues of the macula break down, first effecting central and then expanding to include peripheral vision. Retinitis pigmentosa is the opposite as it destroys peripheral sight first, followed by the loss of central vision.

In both macular degeneration and retinitis pigmentosa, sight is gradually lost, potentially decreasing until all is gone. The goal of intraocular implant developers is to find a way to stimulate the remaining, functional nerve endings within the retina in such a way as to recreate vision.

One type of device currently under development places a miniature video camera in a special pair of glasses to capture the scene in front of the patient. The resultant electrical signals are sent to a signal processor on the patient's hip where they are converted into digital video data. The eyeglass assembly also contains an inductive coil for data and power transmission into the eye. A companion coil and electronics package within the eye convert the video data stream from the hip processor into signals that are scanned onto an electrode matrix attached to the retina. The electrode matrix stimulates

the retinal nerves, producing an image in a manner similar to the way a video monitor creates a picture. The retina nerve endings send the image to the brain and the patient can again see.

These devices are still in development, and at this time the quantity of electrodes on the matrix is still fairly low. Nonetheless, the patient who was totally blind actually sees silhouettes, contrasts or shadow forms, enabling the patient to navigate his or her surroundings and to recognize, for instance, that people are present – even if they cannot be fully seen. While far from perfect, this capability surpasses being totally blind, and returns a measure of freedom and quality of life to the patient. As technology advances, adding electrodes will create even clearer images.

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SCS Complies to Key Industry Standards

SCS recognizes that each customer has unique product and performance specifications that must be met. SCS strives to exceed customer expectations by providing world class services and technologies, and our dedication to quality is evidenced in the numerous activities, standards and certifications that the company undertakes to provide the level of service customers have come to expect.

The SCS Complies logo (to the right) was recently implemented to be a symbol of the company's commitment to high quality services and products.

Following is a list of key industry initiatives and standards to which SCS or SCS Parylene coatings comply:

- ISO 2001:2008 certified coating centers
- ISO 14644 cleanrooms
- Production Parts Approval Process (PPAP)
- U.S. FDA Device and Drug Master Files
- Notified Bodies and Accredited Third Parties coordination
- ISO 10993 biological evaluations and certification
- USP Class VI certification
- Requirements of IPC-CC-830
- QPL for MIL-I-46058C
- UL (QMJU2) recognized
- European Union's RoHS Directive 2002/95/EC
- Halogen-free initiatives
- Lead-free coatings

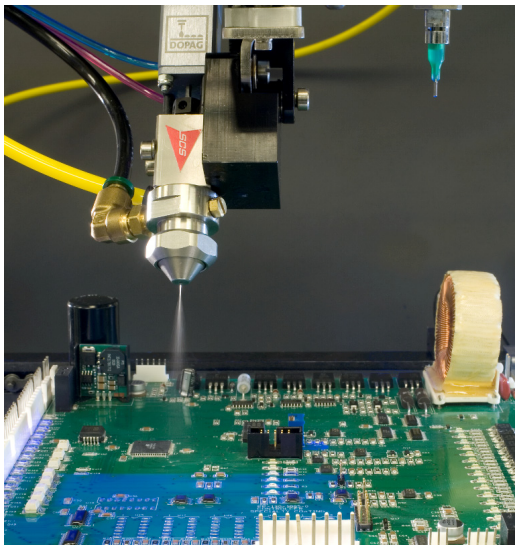
For more information regarding SCS compliance, or to inquire about specific certifications and standards, visit SCScomplies.com or call 317.244.1200.

Question Corner

I am finding inconsistent results in my conformal coating process. What can help me achieve a repeatable, uniform coating without pooling or bubbling?

Inconsistency and pooling can be a result of many factors, but it is possible to eliminate these issues with the proper equipment and expertise. To ensure uniformity during the conformal coating process, choose a selective coating system that is capable of maintaining a specific flow rate and a precisely regulated atomizing spray pressure. Since not all selective coating systems are created equal, the key is to have a system built for consistency, flexibility, reliability, and ease of use to remove as much human error as possible.

It is also important to adhere to a strict process for mixing the coating material. Differences in the amount, type or time the solvent is exposed to the environment (allowed to evaporate) can result in variations in the coating material viscosity.



SCS Precisioncoat applying a conformal coating from Dymax Corporation

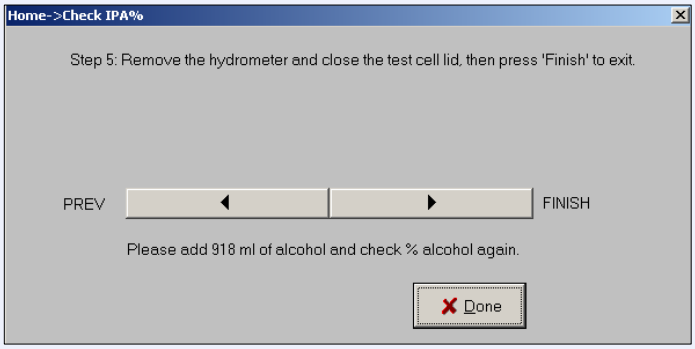
Bubbling is caused when gas is trapped in the liquid coating as it cures. The source of the gas may be the spray process itself, or gases may be forced into the coating material in the pressure pot (much like carbonation). Fine-tuning the coating process by adjusting pressure, flow rate, speed and material concentration is the best way to prevent bubbling.

By combining the quality of the SCS Precisioncoat and extensive conformal coating experience, SCS engineers have helped customers eliminate bubbling and pooling issues and develop a conformal coating process that delivers consistent results. For more information about the SCS Precisioncoat or to schedule a demonstration, please contact Hans Bok at 508.997.4136 or hbok@scscoatings.com.

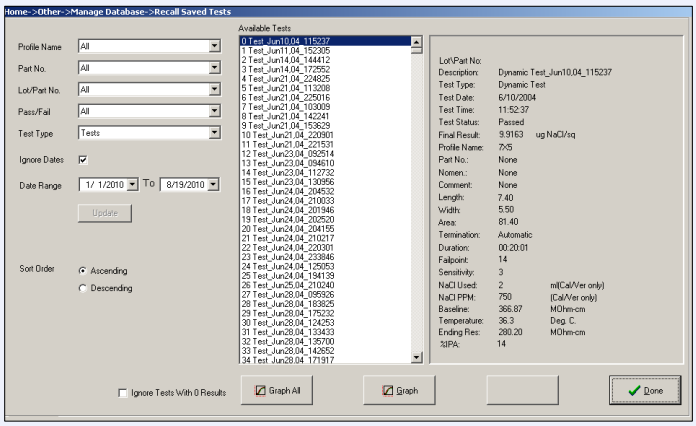
SCS to Release New Version of PowerView™ Software at AATE

SCS has developed an enhanced version of PowerView software that offers Ionograph® customers new features to help simplify ionic contamination testing and results analysis. According to SCS Equipment Program Manager Bill Boyd, "The new and improved PowerView software takes the guesswork out of solution concentration during testing and answers our customers' needs for more robust reporting of test results."

From the first screen in PowerView, users will notice the ease of navigation and new look and feel to the software. At the main menu, a helpful feature has been added to the "Check IPA %" screen. In addition to the system displaying the percent of alcohol present in the solution, it now provides the milliliters of alcohol or water needed to achieve 75% IPA, which is key to accurate contamination testing results. This concentration is calculated automatically, based on the solution volume entered in the set-up configuration.



PowerView's reporting capabilities have also been improved in the new version. All saved test results for a customer may be consolidated into one report, or the data may be filtered by profile, part number, lot number, pass/fail, and/or test date range. The results are displayed in a graphical summary, where users can zoom in/out to view specific aspects, save in various formats, print, and utilize the data to ensure process control standards are being met.



Demonstrations of the SCS Ionograph and PowerView software will be available during the Assembly & Automation Technology Expo taking place in Rosemont, Illinois, September 28-30. We invite you to stop by SCS Booth #541 to learn more, or contact Kurtis Olson at 317.244.1200, ext. 268 or kolson@scscoatings.com

Intraocular Implants

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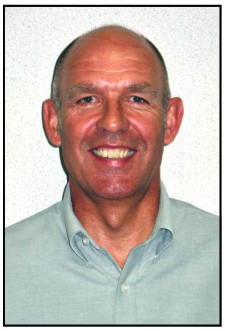
Since this device operates within the eyeball, it must be resistant to all the fluids within the eye. Parylene is an ideal coating for this application, as it protects the device from the eye's fluids and chemistry as well as protects the eye from the device. Parylene is eminently biocompatible and provides both dielectric and fluid barrier protection while adding almost no dimension, mass or rigidity to the implant.

For more information on retinal implants, visit www.scscoatings.com/retina. For more information on Parylene coatings and how they can protect your next medical innovation, contact Lonny Wolgemuth at 317.244.1200, ext. 271 or lwolgemuth@scscoatings.com.

Personal Profiles



Kevin Walker

Managing Director, Europe – *United Kingdom*

Kevin Walker has been with SCS for nearly 10 years, joining the company as the Northern Europe Sales Manager in April 2001. Kevin's experience with SCS and prior background in design, production, manufacturing and sales have awarded him several promotions within the company, leading to his current role as Managing Director of Europe. Kevin manages sales and operations of SCS' European sites, including the Czech Republic, Ireland and United Kingdom Parylene coating centers.

Kevin lives in the South of England and enjoys travel, golf and social gatherings.

Guido Wolf

Sales Manager, Central Europe – *Germany*

Guido Wolf brought 7 years of experience in electronics sales and distribution to SCS in 2007, when he became Sales Manager of Central Europe. Based in Germany, Guido supports SCS Parylene customers throughout the region, including those in the Czech Republic, where a new coating center recently opened.

Guido studied at Deutsche Telekom and holds a degree in telecommunications electronics. In his free time, he enjoys reading, visiting museums, gardening and tackling home improvement projects.

Max Montero

Plant Manager – *Costa Rica*

Max Montero joined SCS in September 2005 as Plant Manager of the Costa Rica facility, bringing extensive experience implementing, developing and certifying production processes in the electronics and plastics industries. Max is currently responsible for the daily operations of SCS' Parylene coating center in Costa Rica, which serves customers throughout the region in the automotive, electronics, medical and military markets.

Max received a mechanical engineering degree from the University of Costa Rica and is working on obtaining his MBA. His hobbies include photography, mountain bicycling and watching movies.

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The Global Coverage exists to promote a better understanding of Parylene and the capabilities of Specialty Coating Systems. For previous issues, visit www.scscoatings.com.

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