You’re Invited... Join our Medical Packaging Experts for an overview of DuPont Science, industry regulations and customer needs and requirements.

Dates and Locations:

- **Tuesday, January 9, 2018**
  - Costa Rica Marriott San Jose
  - 700 meters west from Bridgestone/Firestone
  - La Ribera de Belen, Heredia Province, Heredia, Costa Rica

**Break**
7:30–8:30 a.m.

**Welcome and Introductions**
8:30–8:45 a.m.

**DuPont™ Tyvek® and Tyvek® Transition**
8:45–9:45 a.m.

We’ll share an overview of Tyvek® for medical packaging applications and an overview of DuPont, including:
- Background information on product development
- Product attributes and benefits review
- Technical information and data
- Tyvek® Transition Summary
- DuPont: The Miracles of Science

**Microbiology and Sterilization for the Packaging Professional**
10:30–11:15 a.m.
- Understanding the diversity and challenge of microorganisms
- An overview of the different sterilization modalities and their effects on packaging

**Lunch**
12 noon–1:15 p.m.

**Packaging Engineering and Design**
1:15–2:00 p.m.
We’ll discuss how to select the right package configuration for your product, including:
- Design considerations for pouches, trays and lids, and flexible 3-dimensional (FFS) packages
- Examples of sealing Tyvek® for optimal heat seal and clean peel properties
- Results of a peeling study using different ASTM F88 techniques
- How to be confident your package can withstand global transportation environments
- Examples of actual packaging issues and the corresponding solution

**Break**
2:30–2:45 a.m.

**Microbial Barrier/Ingress**
2:45–3:30 p.m.
- Basics of microbial barrier and filtration
- How do environmental factors impact microbial barrier properties of porous packaging materials
- Compare and contrast current microbial barrier test methods (DIN and ASTM)

**Closing Remarks**
3:30–3:45 p.m.

**Refreshments and Networking Session**
4:00–6:00 p.m.
Discuss specific questions or concerns with DuPont’s subject matter experts during this informal networking session.

Visit MedicalPackaging.DuPont.com to reserve your seat at this one-day seminar. Attendance is FREE!
2017 EDUCATIONAL SEMINAR SPEAKERS
DUPONT MEDICAL & PHARMACEUTICAL PACKAGING

JOSE AREVALO
Global Business Development Manager
DuPont™ Tyvek® Medical & Pharmaceutical Packaging

Jose joined DuPont™ Tyvek® in 2005 with many years of prior experience in the medical device and pharmaceutical market. His varied career has included sales, marketing and R&D/technical roles providing him broad expertise. Jose travels the world extensively supporting DuPont’s medical device customers with package design, troubleshooting, and insights into the global medical device packaging industry.

Jose has an Associate’s Degree in Chemistry and both Bachelor’s and Master’s degrees in Packaging Science from Rochester Institute of Technology (RIT). As a previous ASTM subcommittee chairman, IOPP (Institute of Packaging Professionals) Area Chapter President and Speaker at conferences and event worldwide, his leadership and experience in Technical and industry organizations adds to his ability to provide sound and knowledgeable advice. Jose is also fluent in English and Spanish.

MICHAEL SCHOLLA, PH.D
Global Regulatory Director
DuPont™ Tyvek® Medical & Pharmaceutical Packaging

Mike is the Global Director, Regulatory & Standards and Medical Packaging Fellow for the DuPont Medical and Pharmaceutical Protection business within DuPont Protection Systems. He is actively involved in numerous industry groups, including the Association for the Advancement of Medical Instrumentation (AAMI) where he has served on the Board of Directors for over twelve years and was elected Chair in June 2014. He currently serves as Immediate Past Chair. He also serves on the AAMI Foundation Board.

He serves as co-chair of the Sterilization Standards Committee which is the US Mirror Group for ISO TC198 and a former member of the Committee on Standards Strategy. Mike is the Convener of ISO TC198/WG7 on Medical Packaging, responsible for the globally harmonized standard EN ISO 11607 and guidance EN ISO TS 16775; a member of the editorial board for Pharmaceutical and Medical Packaging News; and a 30-year member of the American Society for Microbiology.

JENNIFER BENOLKEN, CPP
MDM Specialist, Packaging Engineering
DuPont™ Tyvek® Medical & Pharmaceutical Packaging

Jen has worked in the medical device community since 1991 in a variety of packaging related roles—packaging/labeling/sterilization engineer (in both operations and R&D roles), flexible packaging sales representative, and manager—for both labeling and packaging engineering. While Jen earned her undergraduate degree in Manufacturing Systems Engineering at Kettering University (Flint, MI), she came to love packaging through her co-operative work experience at CPI/Guidant. Jen furthered her education by obtaining a Master of International Management degree from St. Thomas University (St. Paul, MN). Jennifer has been a Certified Packaging Professional through Institute of Packaging Professionals since 2002, obtaining lifetime CPP status in 2012.

NICHOLAS PACKET
MDM Specialist, Business Development
DuPont™ Tyvek® Medical & Pharmaceutical Packaging

Nick joins DuPont with 10+ years of experience in the medical device packaging field. Starting his career as a packaging engineer he developed his engineering acumen through the design and qualification of sterile packaging systems for less invasive medical devices. Prior to joining DuPont, Nick managed a team of MDM packaging engineers supporting new product development and sustaining engineering projects. In both his engineering and leadership role he worked to elevate the importance of packaging within the business and focused on understanding the end-user’s requirements and expectations through field visits and focus groups.

Throughout his career, Nick has advanced his expertise in the design of sterile barrier systems, package design verification, test method validation, process improvements, packaging equipment validations and cost savings projects. Nick is a graduate from the Rochester Institute of Technology where he earned a Bachelor of Science in Package Engineering.

DAN FLOYD
MDM Specialist, Microbiologist
DuPont™ Tyvek® Medical & Pharmaceutical Packaging

Dan joined DuPont as an MDM Specialist after 25 years in the medical device and pharmaceutical contract testing industry. He is a sterilization microbiologist with experience in medical device testing, consulting, and sterilization sciences. His main specialty is ethylene oxide sterilization but also has experience in VHP, radiation, dry heat, steam, ozone, and liquid chemical sterilization as well as the microbiological testing of medical devices. Dan has validated sterilization on-site and at contract sterilization facilities and assisted in sterilization consulting and training in the U.S., Canada, Europe, Dominican Republic, Thailand, Costa Rica, and Israel. He routinely speaks at educational seminars on sterilization topics both domestically and abroad.

Dan is a member of multiple AAMI working groups including industrial ethylene oxide sterilization, biological indicators, process challenge devices, sterilization residuals, vaporized hydrogen peroxide, packaging, and resistometers. He is a registered microbiologist with the National Registry of Certified Microbiologists (NRCM), a member of the American Society of Microbiology (ASM), and was a certified quality auditor (CQA) with the American Society for Quality (ASQ).