

**21st Annual AAPS - Northeast Regional Discussion Group (NERDG)**  
**April 12, 2018**

7:00 am – 8:00 am	Vendor Setup	Display Tables
8:00 am – 8:30 am	Registration/Poster Set-up/Continental Breakfast	Corridor/Salon A
8:30 am – 8:45 am	Opening Address	Salons E-H
8:45 am – 9:30 am	<b>Keynote Speaker I</b>	
	<b>Örn Almarsson</b> Senior Vice President Formulation and Delivery Technologies Moderna	Salons E-H
8:45 am – 2:30 pm	General Poster Session Vendor Displays	Salon A/D Corridor
9:30 am – 9:45 am	Break	
9:45 am – 10:45 am	<b>Short Topic Presentation Sessions 1A-3A</b>	Massachusetts New Hampshire Rhode Island
	<b>Academic Research Award Session 1</b>	Salon C
10:45 am – 11:00 am	Break	
11:00 am – 12:00 pm	<b>Short Topic Presentation Sessions 1B-3B</b>	Massachusetts New Hampshire Rhode Island
	<b>Academic Research Award Session 2</b>	Salon C
12:00 pm – 1:15 pm	Lunch	Salons E-H

1:15 pm – 2:45 pm	<b>Round Table Sessions 1-5</b>	
	1. Modified Release Dosage Forms for Pediatric Drug Delivery Systems	Massachusetts
	2. Material Science & Microstructural Considerations for Formulations	New Hampshire
	3. Continuous Processing & Manufacturing	Rhode Island
	4. Advances in Small Molecule Solubilization	Vermont
	5. Bioanalytical and DMPK of Biologics	Salon C
2:45 pm – 3:00 pm	Break	
3:00 pm – 3:15 pm	Awards and Administrative Updates	Salons E - H
3:15 pm – 4:00 pm	<b>Keynote Speaker II</b>	Salons E - H
	<b>Vladimir Torchilin</b> University Distinguished Professor Department of Pharmaceutical Sciences Northeastern University	
4:00 pm – 4:05 pm	Closing Remarks	Salons E - H
4:05 pm – 4:45 pm	Social Gathering and Networking Session	Salon E Foyer
	The Organizing Committee Meeting will follow the event	Massachusetts

## Schedule of Events

Time									
8:00 - 8:30	Breakfast/Registration/Setup (Corridor & Salon A)								
8:30 - 8:45	Opening Address (Salons E-H)								
8:45 - 9:30	Keynote 1: Örn Almarsson (Salons E-H)					Poster Session (Salons A/D)  (Presenters in Attendance 12:45-1:15)	Vendor Displays  (Corridor)		
9:30-9:45	Break								
9:45 - 10:45	STP #1A (Massachusetts)	STP #2A (New Hampshire)	STP #3A (Rhode Island)	ARA Session #1 (Salon C)					
10:45-11:00	Break								
11:00- 12:00	STP #1B (Massachusetts)	STP #2B (New Hampshire)	STP #3B (Rhode Island)	ARA Session #2 (Salon C)					
12:00 - 1:15	Lunch  (Salons E-H)								
1:15 - 2:45	RT #1 (Massachusetts)	RT #2 (New Hampshire)	RT #3 (Rhode Island)	RT #4 (Vermont)	RT #5 (Salon C)				
2:45- 3:00	Break								
3:00-3:15	Business Meeting and Award Ceremony (Salons E-H)								
3:15 -4:00	Keynote 2: Vladimir Torchilin (Salons E-H)								
4:00 - 4:05	Closing Remarks (Salons E-H)								
4:05-4:45	Social Gathering								
The Organizing Committee Meeting will follow the event in the Massachusetts Room									

**NERDG Short Topic Presentations (STP), Sessions 1A-3A:**

<b>Session</b>	<b>Time</b>	<b>Title</b>	<b>Lead Author</b>	<b>Affiliation</b>
<b>STP #1A:</b> Massachusetts Room  <b>Moderator:</b> Kevin Robbins (BMS)	9:45	Comparison of hydroxypropyl cellulose and hot melt extrudable hypromellose in twin screw melt granulation of metformin hydrochloride Presentation Titles here	Amol Batra	Ashland Specialty Ingredients
	10:15	Development and Characterization of Controlled Release Pellets from Aqueous Ethyl Cellulose Dispersions containing Water Soluble/Hydrophilic Plasticizers as Pore-Formers.	Sandeep Kaur	Johnson & Johnson
<b>STP #2A:</b> New Hampshire Room  <b>Moderator:</b> John Morrison (BMS)	9:45	Validation of Scale – up Models for Blender and Feed Frame Lubrication Processes	Naimah Majeed	Pfizer
	10:15	A Science and Risk Based Pragmatic Methodology for Blend and Content Uniformity Assessment	Ajay Babu Pazhayattil	Avaca Pharma
<b>STP #3A:</b> Rhode Island Room  <b>Moderator:</b> Roy Haskell (ARVINAS)	9:45	A mass spectrometry-based proteomics investigation of the protein target of a chemical probe for tumor hypoxia	Lei Wang	University of Connecticut
	10:15	Characterization of Amorphous Supersaturation using Absorbance Spectrum Analysis and Flux Measurements through Lipophilic Membranes	Konstantin Tsinman	Pion

**NERDG Short Topic Presentations (STP), Sessions 1B-3B:**

<b>Session</b>	<b>Time</b>	<b>Title</b>	<b>Lead Author</b>	<b>Affiliation</b>
<b>STP #1B:</b> Massachusetts Room  <b>Moderator:</b> Roy Haskell (ARVINAS)	11:00	Hot melt granulation technique for preparation of directly compressible solid dispersion of poorly soluble drug using co-processed excipients	Gautam Chauhan	St. John's University
	11:30	Probing Miscibility and Molecular Interactions in Amorphous Solid Dispersions Using Solid-state NMR Spectroscopy.	Kanika Sarpal	University of Kentucky
<b>STP #2B:</b> New Hampshire Room  <b>Moderator:</b> John Morrison (BMS)	11:00	Monitoring bed temperature during process development film coating runs	Emily Gullotti	Merck
	11:30	Designing Specialized, Patient Friendly Dosage Forms to Target the Unique Therapeutic Needs of Pediatric and Geriatric Patients	Don Barbieri	SPI Pharma
<b>STP #3B:</b> Rhode Island Room  <b>Moderator:</b> Haiyan Zheng (ACPHS)	11:00	Characterization of API stability via Ultra-High Pressure Liquid Chromatography (UPLC) and Thermal Activity Monitoring (TAM)	Jason LePree	Gattefossé USA
	11:30	Process Patent Protection via Analysis of Stable Isotope Ratios	John P. Jasper	Molecular Isotope Technologies

**NERDG Academic Research Award Presentations (ARA), Sessions 1 and 2:**

<b>Session</b>	<b>Time</b>	<b>Title</b>	<b>Presenter</b>	<b>Affiliation</b>
<b>ARA #1:</b>  Salon C  <b>Moderator:</b> Wendy Wang (Pfizer)	9:45-10:05am	Effect of manufacturing processes on burst release of risperidone microspheres	Janki Andhariya	UCONN & FDA
	10:05-10:25am	Enhanced xenograft OVCAR-8 tumor contrast in X-ray Computed Tomography by intravenously-injected perfluorooctyl bromide nanocapsules	André Beringsh	UCONN
	10:25-10:45am	Preparation of 3D Printed Tablet for Immediate Release by Fused Deposition Modeling (FDM)	Nayan Solanki	St.John's University
<b>ARA #2:</b>  Salon C  <b>Moderator:</b> Wendy Wang (Pfizer)	11:00-11:20am	Continuous Preparation of Salts of Poorly Soluble Drugs by Novel Solvent-Free Method Using Twin Screw Melt Extrusion	Jaydip Vasoya	St.John's University
	11:20-11:40am	Paclitaxel aerosol nacomposite microparticles for the treatment of lung cancer	Elisa Guzman	University of Rhode Island Kingston
	11:40am-12:00pm	Transnasal Mucosal Delivery Of Brain-Derived Neurotrophic Factor AntagoNAT's In Rat Brain using Cationic Liposomal Formulation	Grishma Pawar	Northeastern University

**NERDG Invited Round Table (RT): Sessions 1-3:**

Session	Speaker (Affiliation)	Title
<p><b>RT #1: Modified Release Dosage Forms for Pediatric Drug Delivery Systems</b></p> <p><b>Chair:</b> Lipika Chablani (St. John Fisher College)</p> <p>Massachusetts Room <b>Time: 1:15 – 2:45</b></p>	Lipika Chablani, PhD, St. John Fisher College	Formulation Development of Pediatric Dosage Forms: Challenges and Opportunities
	Junshu Zhao, PhD, Bristol-Myers Squibb Co.	Developing Controlled-Release Multi-Particulate Formulations: Considerations in Manufacturing the Core and the Coating
	Charles Vesey, RPh, MS, Colorcon	Bitter to Better: Formulation Strategies towards Effective Taste Masking
<p><b>RT #2: Material Science and Microstructural Considerations in Formulation</b></p> <p><b>Chairs:</b> Amy Ethier (BASF) and Sanjay Gayakwad, (University of St. Joseph)</p> <p>New Hampshire Room <b>Time: 1:15 – 2:45</b></p>	Bodhi Chaudhuri University of Connecticut	Multiscale Modeling to Predict Triboelectric Behavior in Pharmaceutical Powders
	Matthew Lamm Merck Research Laboratories	Applications of Advanced Imaging Techniques to Pharmaceutical Formulation Development
	Shaukat Ali BASF	Evaluation of High Functional Excipients in Oral and Topical Dosages Formulations
<p><b>RT #3: Continuous Processing &amp; Manufacturing</b></p> <p><b>Chairs:</b> Amol Batra (Ashland Specialty Ingredients G.P.) and Mohamed Ismail Nounou (University of Saint Joseph)</p> <p>Rhode Island Room <b>Time: 1:15 – 2:45</b></p>	Andrew Clausen Snapdragon Chemistry, Inc.	Development of Continuous Flow Photochemical Processes
	Brian M. Zacour, Bristol-Myers Squibb Co.	Leveraging Small Scale Powder Testing Data to Assess the Feasibility of Proposed Continuous Direct Compression Processes
	Dipen Desai Kashiv Pharma LLC	Continuous Drug Product Manufacturing: A Formulation prospective

**NERDG Invited Round Table (RT): Sessions 4-5:**

Session	Speaker (Affiliation)	Title
<p><b>RT#4: Advances in Small Molecule Solubilization</b></p> <p><b>Chairs:</b> Chris Towler (Novartis) and Bing Gu (Pfizer)</p> <p>Vermont Room <b>Time: 1:15 – 2:45</b></p>	<p>Amanda K. Peterson Man Merck Research Laboratories</p>	<p>Producing Amorphous Solid Dispersions: Utilizing Physicochemical Properties to Identify the Ideal Path for Manufacturing</p>
	<p>Ann Newman Seventh Street Development Group LLC</p>	<p>Coamorphous Materials: What Are They and Are They Developable?</p>
<p><b>RT #5: Bioanalytical and DMPK of Biologics</b></p> <p><b>Chairs:</b> Nag Chemuturi (Novartis), Stephen Wang (Pfizer), and Kevin Robbins (Bristol-Myers Squibb Co.)</p> <p>Salon C <b>Time: 1:15 – 2:45</b></p>	<p>Not available at time of print</p>	