



**Agenda**  
**Seminar May 28-29<sup>th</sup>, 2019**

**“Next Generation Strategies and Insights on Large Molecule Characterization”**

Location: Centre of Polymer and Carbon Materials, Polish Academy of Sciences  
ul. M. Curie-Skłodowskiej 34, 41-819 Zabrze, Poland

**May 28<sup>th</sup>, 2019: Seminar**

Start Time

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|-------|---|
| 08:30 | Registration and Coffee   |
| 09:30 | <b>Welcome address</b><br>Dr. Marek Danielewicz, Polygen sp. Z o.o.   |
| 09:45 | <b>The Neon Family</b><br>DAWN, miniDAWN, microDAWN, Optilab, ViscoStar<br>Dr. Christian Ackerschott, Wyatt Technology  |
| 10:15 | <b>Introduction to Multi Angle (MALS) and Dynamic (DLS) Light Scattering</b><br>Prof. Ing. Štěpán Podzimek, Wyatt Technology  |
| 10:45 | Coffee break  |
| 11:15 | <b>Solution behavior of poly(tert-butyl acrylate) stars with different functionality"</b><br>Dr. Barbara Mendrek, Centre of Polymer and Carbon Materials, Polish Academy of Sciences,<br>Zabrze |
| 11:45 | <b>Advanced characterization for proteins and polymers</b><br>Polymer structure, branching, shape, protein conjugates, aggregation<br>Prof. Ing. Štěpán Podzimek, Wyatt Technology              |
| 12:30 | Lunch   |
| 13:30 | <b>What's new at Wyatt Technology</b><br>Dr. Christian Ackerschott, Wyatt Technology  |
| 14:00 | <b>Beyond SEC: separation for molecules, assemblies and delivery systems</b><br>Flow Field Flow Fractionation<br>Prof. Ing. Štěpán Podzimek, Wyatt Technology                                   |
| 14:30 | Coffee break  |
| 15:00 | <b>Case study - determine and predict stability</b><br>Protein formulation and buffer optimization with automated DLS<br>Dr. Christian Ackerschott, Wyatt Technology                            |
| 15:30 | <b>Case study - characterization of a gene delivery system</b><br>Particle size, particle shape, particle number and payload<br>Prof. Ing. Štěpán Podzimek, Wyatt Technology                    |
| 16:00 | <b>Closing discussion</b><br>Dr. Marek Danielewicz, Polygen sp. Z o.o.  |
| 16:15 | End of Seminar  |



## May 29<sup>th</sup>, 2019: Short Course

Start Time

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|-------|--|
| 08:30 | Registration and Coffee  |
| 09:00 | <b>SEC-MALS: How to perform good measurements? - Part I</b><br>Workflow and Analysis<br>Dr. Christian Ackerschott, Wyatt Technology                                |
| 10:15 | Coffee break   |
| 10:45 | <b>SEC-MALS: How to perform good measurements? - Part II</b><br>More information from your methods and experiments<br>Prof. Ing. Štěpán Podzimek, Wyatt Technology |
| 12:00 | Lunch  |
| 13:00 | <b>SEC-MALS: Troubleshooting</b><br>Common challenges with MALS<br>Dr. Christian Ackerschott, Wyatt Technology   |
| 14:30 | Coffee break   |
| 15:00 | <b>FFF training: Method development</b><br>Definition of good FFF method, Training in Scout<br>Prof. Ing. Štěpán Podzimek, Wyatt Technology                        |
| 16:30 | <b>Take home message</b><br>Dr. Marek Danielewicz, Polygen sp. Z o.o.  |
| 17:00 | End of Short Course  |

Please download the slides here:

- Introduction to Multi Angle (MALS) and Dynamic (DLS) Light Scattering:  
<http://www.wyatt.com/files/WTE/Seminar/01MALS.ppsx>
- Advanced characterization for proteins and polymers  
<http://www.wyatt.com/files/WTE/Seminar/02MALS.ppsx>
- Beyond SEC: separation for molecules, assemblies and delivery systems  
<http://www.wyatt.com/files/WTE/Seminar/03FFF.ppsx>