

**PHI MultiPak for XPS Data Reduction Training**  
**PHI MultiPak for Auger Data Reduction Training**  
**PHI TOF-DR for TOF-SIMS Data Reduction Training**  
**Eigenvector Research PLS Toolbox Training**

**Thursday and Friday, September 12 and 13, 2019**  
**Country Inn & Suites, Chanhassen, MN**

## **INFORMATION SHEET**

### **MultiPak for XPS Data Reduction Software Training:**

Online registration is now open on our website ([www.phi.com](http://www.phi.com)) for the hands-on training session using *MultiPak for XPS Data Reduction* software.

The *MultiPak* training session will cover the basic functions of *MultiPak* as well as focusing on more advanced features. To make the training most effective, class size will be limited to 15 participants. **Training may be cancelled if less than 6 participants register.**

Registrants will have an opportunity to provide program input via the conference registration form prior to the training. A full agenda will be provided to all attendees prior to the training session.

**Please note that all participants are required to bring their own laptop computer to the class with *MultiPak* version 9.9.0.x installed.**

The cost for the training session is \$500 regular, \$150 for students, and includes the training, all coffee breaks, dinner and lunch on Thursday. Participants are responsible for all other expenses including their own transportation and hotel costs.

Registrants will be invoiced prior to the training. Payment must be received no later than September 2, 2019.

### **Class schedule**

Thursday, September 12 – 9:00 am – 5:00 pm

### **MultiPak for XPS Training Team:**

Local Organizer:	Ben Ellefson	<a href="mailto:bellefson@phi.com">bellefson@phi.com</a>	+1 952 828 6120
Training Program:	Jenny Mann	<a href="mailto:jmann@phi.com">jmann@phi.com</a>	+1 952 828 6315
	Ben Schmidt	<a href="mailto:bschmidt@phi.com">bschmidt@phi.com</a>	+1 952 828 6148

**MultiPak for Auger Data Reduction Software Training:**

Online registration is now open on our website ([www.phi.com](http://www.phi.com)) for the hands-on training session using *MultiPak for AES Data Reduction* software.

The *MultiPak* training session will cover the basic functions of *MultiPak* as well as focusing on more advanced features. To make the training most effective, class size will be limited to 8 participants. **Training may be cancelled if less than 4 participants register.**

Registrants will have an opportunity to provide program input via the conference registration form prior to the training. A full agenda will be provided to all attendees prior to the training session.

**Please note that all participants are required to bring their own laptop computer to the class with *MultiPak* version 9.9.0.x installed.**

The cost for the training session is \$500 regular, \$150 for students, and includes the training, all coffee breaks, dinner and lunch on Thursday. Participants are responsible for all other expenses including their own transportation and hotel costs.

Registrants will be invoiced prior to the training. Payment must be received no later than September 2, 2019.

**Class Date and Time**

Thursday, September 12, 2019 - 9 am to 5 pm

**MultiPak Training Team:**

Local Organizer:	Ben Ellefson	<a href="mailto:bellefson@phi.com">bellefson@phi.com</a>	+1 952 828 6120
Training Program:	Dennis Paul	<a href="mailto:dpaul@phi.com">dpaul@phi.com</a>	+1 952 828 6480
	Ashley Ellsworth	<a href="mailto:aellsworth@phi.com">aellsworth@phi.com</a>	+1 952 828 6410

**TOF-DR for TOF-SIMS Data Reduction Software Training:**

Online Registration is now open on our website ([www.phi.com](http://www.phi.com)) for the hands-on training session using *TOF-DR for TOF-SIMS Data Reduction* software.

Training will cover the basic functions of *TOF-DR*, as well as some more advanced features as time allows. To make the training most effective, class size will be limited to 8 participants. **Training may be cancelled if less than 4 participants register.**

Registrants will have an opportunity to provide program input via the conference registration form prior to the training. A full agenda will be provided to all attendees prior to the training session.

**Please note that all participants are required to bring their own laptop computer to the class with the most recent version of *TOF DR* - version 1.5 or 2.0, depending on your computer configuration, installed.**

The cost for the training session is \$500 regular, \$150 for students, and includes the training, all coffee breaks, dinner and on Thursday. Participants are responsible for all other expenses including their own transportation and hotel costs.

**Class Date and Time**

Thursday, September 12, 2019 - 9 am to 5 pm

**TOF-DR Training Team:**

Local Organizer:	Ben Ellefson	bellefson@phi.com	+1 952 828 6120
Training Program:	Gregory Fisher	gfisher@phi.com	+1 952 828 6460

**PLS Toolbox: Advanced Multivariate Image Analysis (MIA) software training:**

Online Registration is now open on our website ([www.phi.com](http://www.phi.com)) for the PLS Toolbox Advanced Multivariate Image Analysis (MIA) software training.

Bob Roginski from Eigenvector Research will run a one-day workshop on Friday, September 13th using PLS\_Toolbox to perform MIA on TOF-SIMS images. PLS\_Toolbox, one of the leading multivariate analysis software packages, can now directly read PHI raw data files to simplify advanced data analysis. This course will start with a brief review of Principal Component Analysis and then focus on a wide variety of practical methods to get the most information out of your TOF-SIMS images.

The cost for the training session is \$350 and includes the training and Lunch on Friday. Participants are responsible for all other expenses including their own transportation and hotel costs.

**Class Date and Time**

Friday, September 12, 2019 - 9 am to 5 pm



**ACCOMODATION / HOTEL:**

PHI has secured a special rate of \$129 /night (includes breakfast & free WIFI) at the **Country Inn & Suites in Chanhassen, MN**. You need to make your own reservation by latest August 10th to secure the special room rate.

Please reference to block reservation name **“PHELEC”** when you make your reservation either online or over the phone.

**Country Inn & Suites by Radisson**

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Chanhassen, MN 55317  
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