

# Extract More Insights from Your Samples

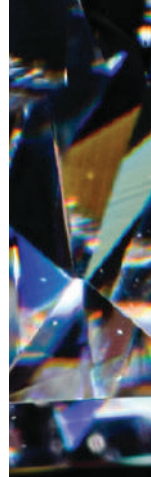
## Seminar on X-Ray Fluorescence(XRF) and X-Ray Diffraction Analysis (XRD)

Overview of ICP solutions by Spectro

### Program

April 8, 2025, Tuesday

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| <b>9:00-10:00</b>  | <b>Registration</b> - Conference hall,<br>National Center of Mechatronics and Clean Technologies   |
| <b>10:00-10:15</b> | <b>Opening ceremony</b><br><i>Prof. Daniela Kovacheva</i> , Institute of General and<br>Inorganic Chemistry, BAS<br><i>Assoc. Prof. Peter Tzvetkov</i> , Institute of General and<br>Inorganic Chemistry, BAS<br><i>Dr. Petar Ivanov</i> , Director of Distributor Sales,<br>SPECTRO Analytical Instruments GmbH<br><i>Boryana Tonova-Lyutskanova</i> , M.Sc.Eng.,<br>Division Manager, RSR Bulgaria |
| <b>10:15-10:45</b> | <b>The XRPD method: basic principles and capabilities.</b><br><i>Prof. Daniela Kovacheva</i> , Institute of General and<br>Inorganic Chemistry, BAS  |
| <b>10:45-11:15</b> | <b>Sample preparation for powder X-ray diffraction.<br/>Combining PXRD results with elemental analysis (XRF) data.</b><br><i>Assoc. Prof. Peter Tzvetkov</i> , Institute of General and<br>Inorganic Chemistry, BAS  |
| <b>11:15-11:45</b> | <b>ED-XRF: Basic principles and capabilities.<br/>Test methods and norms.</b><br><i>Dirk Wissmann</i> , Senior Product Manager,<br>SPECTRO Analytical Instruments GmbH   |
| <b>11:45-12:15</b> | <b>Overview of ICP solutions by SPECTRO</b><br><i>Dr. Petar Ivanov</i> , Director of Distributor Sales,<br>SPECTRO Analytical Instruments GmbH   |
| <b>12:30-13:30</b> | <b>Lunch</b>   |
| <b>14:00-17:00</b> | <b>Hands-on training</b><br><i>Please bring your samples</i>   |
| <b>19:00</b>       | <b>Dinner</b><br><i>Please confirm your attendance at the dinner in advance</i>  |



## April 9, 2025, Wednesday

- 09:30-10:00** **XRF: Sample preparation**  
*Dirk Wissmann, Senior Product Manager, SPECTRO Analytical Instruments GmbH*
- 10:00-10:30** **ED-XRF: Trace, minor and major element analysis: typical examples**  
*Dirk Wissmann, Senior Product Manager, SPECTRO Analytical Instruments GmbH*
- 10:30-11:00** **Coffee break**
- 11:00-12:00** **Tao of the X-ray analytical systems**  
*Dr. Kamen Kamenov, Institute of Solid State Physics, BAS*
- 12:00-13:00** **Lunch**
- 13:00-13:30** **Tour of the National Center of Mechatronics and Clean Technologies and presentation of the laboratories**
- 13:30-16:00** **Hands-on training**  
*Please bring your samples*

## April 10, 2025, Thursday

- 10:00-12:00** **Hands-on training**  
*Please bring your samples*

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## Hands-on trainings

Available XRF instruments for all days:



SPECTRO XEPOS  
ED-XRF spectrometer



SPECTROSCOUT portable  
XRF spectrometer



SPECTRO xSORT handheld  
XRF spectrometer

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**We look forward to welcoming you to this special event!**