

Advanced SIMION Ion Optics



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1.0 Introduction



■ Objective

Provide exposure to advanced SIMION features of:

- array instances,
- geometry files, and
- user programs.



Introduction



- Format: Short Lectures (usually) followed by labs.
- Breaks at 10:15, and 2:30
- Lunch from 12-1:00 (provided)
- Bathrooms, fire exits
- Material: Course Notes, Reference Notes, SIMION 7.0 manual, CD with SIMION 7.0 and everything else on it.



Course Outline - Day 1

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|-------------------------------------|-------------|
| 1. SIMION 7.0 – new features | 9:15-9:30 |
| 2. Trajectories+Instance lecture | 9:30-10:15 |
| <i>Break 10:15-10:45</i> | |
| 3. Trajectory + Instance Lab | 10:45-11:15 |
| 4. Geometry files + lab | 11:15-12:00 |
| <i>Lunch 12:00-1:00</i> | |
| 5. 2D and 3D gem files + lab | 1:00-2:00 |
| 6. Strategy and tricks of the trade | 2:00-2:30 |
| <i>Break 2:30-3:00</i> | |
| 7. Description of complex example | 3:00-3:15 |
| 8. Creating gem files - Lab | 3:15-4:30 |



Course Outline - Day 2

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|---------------------------------------|-------------|
| 9. User Programming Intro. & Lab | 9:00-9:30 |
| 10. Details Lecture & Lab | 9:30-10:15 |
| <i>Break 10:15-10:45</i> | |
| 11. Lab continued | 10:45-11:15 |
| 12. Strategies and tricks | 11:15-12:00 |
| <i>Lunch 12:00-1:00</i> | |
| 13. Lab & Application Vignettes | 1:00-2:30 |
| <i>Break 2:30-3:00</i> | |
| 14. Lab & Application Vignettes cont. | 3:00-4:15 |
| 15. Graduation ceremony | 4:15-4:30 |

