

<b>Day I: Tuesday, June 23</b>	
<b>Time</b>	<b>Activity</b>
<b>8:00-8:45</b>	Registration.
<b>8:45-9:00</b>	<b>J. Sofo (Penn State):</b> Welcome.
<b>9:00-10:00</b>	<b>K. Schwarz (TU Wien):</b> Density functional theory (DFT) and the concepts of the augmented-plane-wave plus local orbitals (APW+lo) method
<b>10:00-10:30</b>	Coffee break
<b>10:30-12:00</b>	<b>P. Blaha (TU Wien):</b> An overview of the new WIEN2k package.
<b>12:00-13:00</b>	Lunch
<b>13:00-15:30</b>	<b>Exercise I:</b> Getting started, struct file, init, scf, charge density, DOS, bands.
<b>15:30-16:00</b>	Coffee break
<b>16:00-16:30</b>	<b>P. Blaha (TU Wien):</b> Structure optimization, volume, atomic positions (forces), minimization.
<b>16:30-17:30</b>	<b>Exercise II:</b> Volume optimization, force minimization, supercells.

<b>Day II: Wednesday, June 24</b>	
<b>Time</b>	<b>Activity</b>
<b>9:00-9:30</b>	<b>K. Schwarz (TU Wien):</b> Magnetism (FM, FSM, AFM).
<b>9:30-10:00</b>	<b>P. Blaha (TU Wien):</b> Core-level spectra (XSPEC, ELNES).
<b>10:00-10:30</b>	Coffee break (Group picture will be taken outside of Hammond Bldg.)
<b>10:30-12:00</b>	<b>Exercise III:</b> Spectra (xspec and elnes).
<b>12:00-13:00</b>	Lunch
<b>13:00-14:00</b>	<b>S. Cottenier (Ghent U.):</b> Hyperfine Interactions
<b>14:00-15:30</b>	<b>Exercise IV:</b> Structure optimization, magnetism.
<b>15:30-16:00</b>	Coffee break
<b>16:00-17:30</b>	<b>Lab I:</b> Work on personal or suggested project.

<b>Day III: Thursday, June 25</b>	
<b>Time</b>	<b>Activity</b>
<b>9:00-10:00</b>	<b>J. Sofo (Penn State):</b> Optical Properties of solids with the WIEN2k package.
<b>10:00-10:30</b>	Coffee break

<b>10:30-11:00</b>	<b>J. Sofo (Penn State):</b> Transport coefficients.
<b>11:00-12:00</b>	<b>Exercise V:</b> Optic.
<b>12:00-13:00</b>	Lunch
<b>13:00-13:30</b>	<b>S. Cottenier (Ghent U.):</b> Relativistic Effects
<b>13:30-14:00</b>	<b>F. Tran (TU Wien):</b> LDA+U, Hybrid-DFT
<b>14:00-15:30</b>	<b>Exercise VI:</b> Magnetism, Spin-orbit, LDA+U.
<b>15:30-16:00</b>	Coffee break
<b>16:00-17:30</b>	<b>Lab II:</b> Work on personal or suggested project.
<b>begin 19:00</b>	<b>Conference Dinner:</b> Days Inn Penn State

<b>Day IV: Friday, June 26</b>	
<b>Time</b>	<b>Activity</b>
<b>9:00-10:00</b>	<b>K. Schwarz (TU Wien):</b> Large scale applications with WIEN2k
<b>10:00-10:30</b>	Coffee break
<b>10:30-11:15</b>	<b>P. Blaha (TU Wien):</b> Installation of WIEN2k, parallelization, Grid computing.
<b>11:15-12:00</b>	<b>F. Tran (TU Wien):</b> Advanced GGAs
<b>12:00-13:00</b>	Lunch
<b>13:00-14:00</b>	<b>Lab III:</b> Work on personal or suggested project.
<b>14:00-15:00</b>	<b>Posters + Coffee:</b> Discussion on the posters presented.
<b>15:00-16:00</b>	<b>Round table:</b> General discussion on WIEN2k. P. Blaha, S. Cottenier, K. Schwarz, J. Sofo, and F. Tran