

# QUASICRYSTALS AND COMPLEX ALLOYS: Informal symposium

Monday, May 4

701 Clark Hall 9:15am - 11:45am, 1:15pm - 4:30pm

*The occasion for these talks is a collaboration visit/workshop by Dr. Michael Engel and Daniel Schopf, who are in town all week, as well as Dr. Mihalkovic, who is visiting Chris Henley until May 22. Please contact Chris Henley if you would like to meet these visitors.*

The public is welcome

Co-organizers

Prof. Christopher L. Henley (clh13@cornell.edu)

Dr. Marek Mihalkovic (marek@ccmr.cornell.edu)

Each talk will be about 30 minutes + 15 min discussion

**9:15** Prof. Michael Widom, Carnegie-Mellon Univ., “The liquid-liquid transition in molten Silicon”

**10:00 – 10:15 Break**

**10:15** Prof. Richard G. Hennig, Dept. of Materials Science, Cornell, “Ex Nihilo Prediction of Crystal Structures: High-Pressure Phases in the Li-Be System” (title tentative)

**11:00** Robert Berger and Prof. Stephen Lee, Dept. of Chemistry, Cornell, “Unification of a class of intermetallic approximants as a projection of the 8-dimensional E8 lattice”

**11:45 – 1:15 Break for lunch**

**1:15** Christopher L. Henley, Physics Dept., Cornell (with Sejoon Lim, and Dr. M. Mihalkovic), “Penrose matching rules for a decagonal quasicrystal from Al-Co pair potentials in an almost realistic model”

**2:00** Daniel Schopf, Stuttgart Univ. (with Prof. H.R. Trebin, Dr. Peter Brommer), “Analytical potentials fitted to ab-initio databases of forces and energies”

**2:45 – 3:00 Break**

**3:00** Dr. Marek Mihalkovic, Slovak Academy of Sciences, “Structure and stability of i- $\text{AlMnPd}$  phases”

**3:45** Dr. Michael Engel, Univ. of Michigan (with Stuttgart Univ.), “Revisiting ksi-prime Al-Mn-Pd: from cluster substructure to metadislocations”

**4:30 conclude**