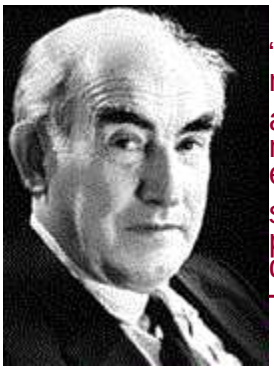

"On the basis of general theoretical considerations, we believe at present that the most reasonable estimate is $T_c \leq 300$ K; this estimate being, of course, for materials and systems under more or less normal conditions equilibrium or quasi-equilibrium metallic systems in the absence of pressure or under relatively low pressures, etc… Furthermore, for the present state of the problem of high-temperature superconductivity, the most sound and fruitful approach will be one that is not pre-conceived, in which attempts are made to move forward in the most diverse directions."
—Vitaly Ginzburg, 2003 Nobel Lecture

- Home
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- Vitaly Ginzburg

Select registrant type: Attendee

Attendee

Towards Room Temperature Superconductivity: SUPERHYDRIDES and MORE

Welcome to the Workshop, and more opening statements.
Monday, May 08, 2017 8:30 AM - 9:00 AM (Pacific Time)
Location: Room D, Sandhu Conference Center

Mikhail I. Eremets: News on 203 K superconductivity.

9:00 AM - 9:45 AM (Pacific Time)
Location: Room D, Sandhu Conference Center

Luciano Pietronero: Conventional/unconventional superconductivity in high pressure hydrides and beyond: Insights from theory and perspectives.

Monday, May 08, 2017 9:45 AM - 10:30 AM (Pacific Time)
Location: Room D, Sandhu Conference Center

Coffee Break + Posters (start)

Barry M. Klein: Progress toward the discovery of a room temperature superconductor: What drives high T_C of the superhydrides at high pressure, and where do we go from here?
Monday, May 08, 2017 11:00 AM - 11:45 AM (Pacific Time)
Location: Room D, Sandhu Conference Center

Dimitrios A. Papaconstantopolous: The electron-phonon coupling in light-element hydrides.

Monday, May 08, 2017 11:45 AM - 12:30 PM (Pacific Time)
Location: Room D, Sandhu Conference Center

LUNCH: 12:30 - 2: Randall Dining Commons - Sandhu Residence Hall

Anders Blom: What we can and cannot yet accomplish in search of novel superconductors with QuantumWise.

Monday, May 08, 2017 2:00 PM - 2:45 PM (Pacific Time)
Location: Room D, Sandhu Conference Center

Fan Zhang: Possible Superconductivity Above Ice Point

Monday, May 08, 2017 2:45 PM - 3:30 PM (Pacific Time)
Location: Room D, Sandhu Conference Center

Coffee Break + Posters (continued)

L.Z. Deng: Possible Interface Superconductivity in rare-earth doped $CaFe_2As_2$ and undoped $CaFe_2As_2$

Monday, May 08, 2017 4:00 PM - 4:45 PM (Pacific Time)
Location: Room D, Sandhu Conference Center

Jing Xia: Towards room temperature 2D superconductivity at magnetic-semimetal interface.

Monday, May 08, 2017 4:45 PM - 5:30 PM (Pacific Time)

Location: Room D, Sandhu Conference Center

Coffee Break + Posters (continued)

Armen Gulian: Serendipitous vs. systematic search for room-temperature superconductivity.

Monday, May 08, 2017 6:00 PM - 6:45 PM (Pacific Time)
Location: Room D, Sandhu Conference Center

Ivan Božovic: Following V.L. Ginzburg: On the road to room temperature superconductivity.

Monday, May 08, 2017 6:45 PM - 7:30 PM (Pacific Time)
Location: Room D, Sandhu Conference Center

Banquet Dinner

7:45 PM - 10:00 PM (Pacific Time)
Location: Room D1, Sandhu Conference Center

- Vegetarian
- Chicken
- Fish

Check-in for Day 2

Tuesday, May 09, 2017 8:30 AM - 9:00 AM (Pacific Time)
Location: Room 209, Argyros Forum

Teodor H. Geballe and Jochen Mannhart: Raising T_c - A different method.
9:00 AM - 9:45 AM (Pacific Time)
Location: Room 209, Argyros Forum

Paul M. Grant: Superconducting fluctuations in one-dimensional quasi-periodic "metallic" chains: The Little Model of room temperature superconductivity embodied.
9:45 AM - 10:30 AM (Pacific Time)
Location: Room 209, Argyros Forum

Coffee Break + Posters (continued)

Oleg V. Dolgov: The electron-phonon interaction with forward scattering peak in FeSe on $SrTiO_3$

11:00 AM - 11:45 AM (Pacific Time)
Location: Room 209, Argyros Forum

Michael V. Sadovskii: Electronic structure of FeSe monolayers: why T_c is so high?

Tuesday, May 09, 2017 11:45 AM - 12:30 PM (Pacific Time)
Location: Room 209, Argyros Forum

LUNCH: 12:30 - 2: Randall Dining Commons - Sandhu Residence Hall

Sung-Ho Salk: Plausible room temperature superconducting phase transitions based on holon-pair slave-boson theory of antiferromagnetic fluctuations.

Tuesday, May 09, 2017 2:00 PM - 2:45 PM (Pacific Time)
Location: Room 209, Argyros Forum

Qiang Li: Chiral magnetic effect in condensed matter - A new route for non-dissipative charge transport at room temperature.

Tuesday, May 09, 2017 2:45 PM - 3:15 PM (Pacific Time)
Location: Room 209, Argyros Forum

Coffee Break + Posters (continued)

Pablo Esquinazi: Evidence for superconductivity at room temperature at graphite interfaces.

Tuesday, May 09, 2017 4:00 PM - 4:45 PM (Pacific Time)
Location: Room 209, Argyros Forum

Xiao-Jia Chen: Discovery of superconductivity above 120 K in a molecule at ambient pressure.

Tuesday, May 09, 2017 4:45 PM - 5:30 PM (Pacific Time)
Location: Room 209, Argyros Forum

Coffee Break + Posters (end)

Round Table/Open Discussion

Tuesday, May 09, 2017 6:00 PM - 7:00 PM (Pacific Time)
Location: Room 209, Argyros Forum

Closing statements and farewell.

Tuesday, May 09, 2017 7:00 PM - 7:30 PM (Pacific Time)
Location: Room 209, Argyros Forum

Poster Presentations

Noah Bray-Ali: Standard Temperature and Pressure Superconductivity.
Annette Bussman-Holder: Superconductivity at extremely high temperatures: the case of H_2S.
Bastien Guigue: Synthesis of pure H_3S: A review of the different P-T pathways and implications.
ChangQing Jin: Development of a symmetric miniature diamond anvil cell for magnetic measurements of superconductors in a SQUID magnetometer.
I. Kanazawa: Quantized Massive-collective Gauge Fields and Anomalous Properties in high-T_c Cuprates.
Z.S. Khudayberdiev: Anderson metal-insulator transition and pseudogap phenomena in underdoped cuprates.
Milind N. Kunchur: Short-Timescale and Extreme-Dissipation Investigations in superconductors.

Sara Lopez, Xabier Martinez de Irujo: Superconductivity in $M_XCu_{1-x}Sr_2RECu_2O_{7-6}$ (M = Mo and Fe) cuprates.
Adrien Marizy: Development of a symmetric miniature diamond anvil cell for magnetic measurements of superconductors in a SQUID magnetometer.
L.S. Mazov: Planar "Ginzburg Sandwich" in Cuprates, Pnictides and Hydrides.
Ziad Melhem: New Advancements in superconducting magnets and cryogenic environments for condensed matter research and nanotechnology applications.
G. Melkonyan, M. Gulian, S. Kasthurirengan: Dielectric Function/Genetic Algorithm Approach to Room-Temperature Superconductivity in Nanomaterials.
Takaki Muramatsu: The possibility of new multiple calcium polyhydride structural phases synthesized under high pressure and high temperature.
L. Ortenzi: Tight binding model and channel like structures in H_3S and their implications for the superconducting pairing.
Kalyan Sasmal: Competing Spin Density Wave & Superconducting order in Electron-doped Sm $(O_{1-x}F_x)$FeAs & Hole-doped $(Pr_{1-x}Sr_x)$OFeAs iron-pnictide.
Serhii Shafraniuk: Another approach to the problem of the room temperature superconductivity.

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