

FALL 2015

ITAMP News

Harvard-Smithsonian Center for Astrophysics
itamp.harvard.edu

Workshops, Topical Groups, & Schools

ITAMP/B2 Institute Winter Graduate School on AMO Physics, at University of Arizona- Biosphere 2, January, 6-13, 2015.

ITAMP/B2 Institute Joint Workshop on Hybrid Quantum Systems, H. Sadeghpour (ITAMP), P. Meystre (University of Arizona), at University of Arizona- Biosphere 2, February 16-18, 2015

Charge Exchange X-rays in Current and Future Astrophysical Research, Vasili Kharchenko (ITAMP/ UCONN), Randall Smith (CfA), Ralph Kraft (CfA), April 13-15, 2015

Light-Matter Interactions in Low Dimensions Darrick Chang (ICFO), Peter Lodahl (Niels Bohr Institute), Peter Rabl (TU Wien), Mikhail Lukin (Harvard University), June 29 - July 1, 2015



SEND YOUR STUDENTS TO THE ITAMP/B2 INSTITUTE 2016 WINTER SCHOOL!

The ITAMP/B2 Institute Winter Graduate School in AMO Physics on "Ultrafast and Ultrastrong", will be held on the Biosphere Canpus near Tucson, Arizona from January 4-12.

Visit:

www.cfa.harvard.edu/itamp/WinterSchool2016.html

ITAMP 2.0

It's with great excitement that I announce the selection of ITAMP as a "new" NSF-funded center for AMO theory in the U.S. That the Institute has existed for more than 25 years is known to everyone, but its selection in an open competition and the new round of funding for its activity is not only a reflection of support by the AMO community for its activities, but is certainly a call for action on our part to further engage the AMO physics and outreach to the broader scientific community and the public.

In the coming months and years, we plan on activities and programs which increase participation and input from the AMO community; in call for proposals for visits, organizing workshops and outreach activities.

In the short term, I'm happy to announce a new call for the ITAMP postdoctoral fellowship and the ITAMP/B2 Institute joint Winter Graduate School in AMO physics. Information on both announcements can be found at itamp.harvard.edu.

Please engage with us and feel free to drop us a line, or drop by!

For everyone at ITAMP,

Hossein Sadeghpour



ITAMP Postdoctoral Fellowship Application deadline is **November 23, 2015**. The online application is open: www.cfa.harvard.edu/itamp/postdoctoral.html

Farewell

While we're always joyed when an ITAMP fellow finds a position elsewhere, we do so with a great deal of sadness in seeing them leave.

Tony Lee whose tenure was from 2012-2015 left in August to fill a faculty position at IUPUI (<http://physics.iupui.edu/~leete/index.html>). His research interests include quantum non-linear dynamics and dissipative spin systems. He not only secured a tenure-track position, but also got married before heading to Indianapolis.

Swati Singh was at ITAMP from 2012-2015 and left in September for a position at the University of Arizona working with Pierre Meystre. Her research interests are in quantum backaction in mechanical oscillators and quantum many-body optics.

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ITAMP Outreach

ITAMP continues to offer videos from workshops and the Winter Schools on YouTube. Recent videos can be found by searching for **"ITAMP Physics"**. Older videos can be found at youtube.com/ITAMPPhysics.

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AMO THEORY INPUT WANTED

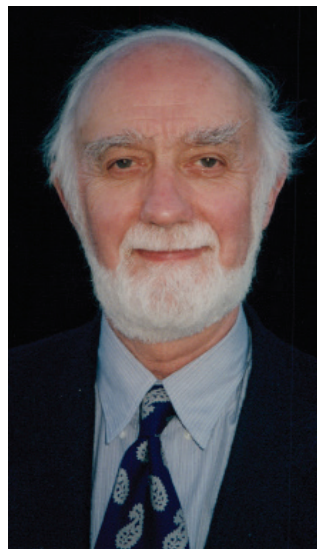
Have an idea for a workshop you want to organize? Have some sabbatical time? Would you like to bring a group of people together?

ITAMP can make it happen.

Contact Us:
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In Memory of Alex Dalgarno



Alex Dalgarno, a giant in theoretical atomic and molecular physics and astrophysics passed away on April 9, 2015 in Cambridge, MA. He was 87. He influenced physics, aeronomy, chemistry and astronomy. In a career which spanned seven decades, highlighted by remarkable achievements, he touched the lives of many students, postdocs, colleagues and scientific associates.

Alex Dalgarno published more than 750 peer-reviewed papers. His first publication was in 1952 as a graduate student in the Proceedings of the Physical Society of London and his last publication in 2013 was in the Journal of Physical Chemistry A.

ITAMP was the brainchild of Alex and he was its founding director. He was always there to help out with constructive comments and witty remarks. Those of who were with him at ITAMP can attest to his remarkable insight.

We have created a memorial page in his honor at (<https://www.cfa.harvard.edu/itamp/AlexDalgarno.html>) in which you will find several historical interviews with him, a autobiographical paper he wrote ("A Serendipitous Journey"), and a memorial wall on which you can share your views of the man.

A Physics Today article on Alex appeared in the August issue. There was also a Boston Globe article in May. Both article are available for viewing on The Memorial page. A call for a Special Issue in the Journal of Physics B (IOP) will soon go out.

Alex was a great scientist and perhaps an even greater mentor to a large cluster of students, fellows, faculty and science and public policymakers. He kept an open mind in all manners of science and life and was a football enthusiast. His influence on the scientific enterprise, at ITAMP, and in life will certainly outlive him.

www.cfa.harvard.edu/itamp/AlexDalgarno.html