

Second Announcement and call for papers
The Interdisciplinary Workshop
“Progress in Non-equilibrium Green’s Functions IV”

will be held August 17-21, 2009 in Glasgow, Scotland, UK.

Aim: The dynamics of quantum many-particle systems is of growing importance in many fields, including condensed matter, plasmas, quantum transport, high energies, quantum chemistry, etc. At the same time self-consistent equilibrium results for correlated electron systems are becoming of increasing relevance. This workshop is devoted to the most general approach to these problems - theory and modern applications of non-equilibrium Green’s functions. It will unite specialists and students from various fields of physics for an informal exchange. It continues the tradition of the first three meetings held in Rostock (1999), Dresden (2002) and Kiel (2005), Germany and which resulted in excellent review books.

Topics:

- Electronic correlations in condensed matter systems.
- Collective effects, Quasiparticles, Bound states, Bose condensation.
- Charged particles and photons, QED, Many-body effects in plasmas.
- High energy, Particles, QCD, Cosmology.
- Strong fields, Quantum transport.
- Combination of NEGF methods with other approaches.

Invited Speakers:

Speakers include:

Alex Abrikosov* (Argonne), Carl Olof Almbladh* (Lund), Frithjof Anders (Dortmund), Karsten Balzer (Kiel), John Barker (Glasgow), Gordon Baym (Illinois, Urbana-Champaign), Michael Bonitz (Kiel), Pawel Danielewicz (Michigan), Wolf-Dietrich Kraeft, Barry Dunletz, (University of Michigan), David Ferry (Arizona State), Dirk Gericke (Warwick), Matthew Gilbert (Illinois Urbana-Champaign), Antti-Pekka Jauho, DTU Copenhagen, Frank Jahnke (Bremen), Kimmo Kainulainen (Jyväskylä), Leonid Keldysh* (Moscow), Irena Knesevic (Wisconsin), Joern Knoll (GSI Darmstadt), Dietrich Kremp (Rostock), Gerald Mahan, Paul Martin* (Harvard), John McGrady* (Glasgow), Antonio Martinez (Glasgow), Nikolay Prokofjev (U Massachusetts), Arnau Rios (Michigan State University), Peter Schmitteckert (Karlsruhe), Robert van Leeuwen (Jyväskylä), Bedrich Velicky (Prague).

*to be confirmed

The scientific program will consist of tutorial lectures (accessible to graduate students), invited review talks and posters. Attendance will be limited to 80. Colleagues interested in participation, please contact any member of the program committee.

Program Committee:

A. Abrikosov (Argonne), Carl-Olof Almbladh (Lund), J. R. Barker (Glasgow), G. Baym (Illinois), M. Bonitz (Kiel), P. Danielewicz (Michigan), D. Ferry (ASU), F. Jahnke (Bremen), A. P. Jauho (Lyngby), J. Knoll (GSI Darmstadt), L. V. Keldysh (Moscow), P.C. Martin (Harvard), R. van Leeuwen (Groningen), B. Velicky (Prague).

Local Organizing Committee:

John Barker, Scott Roy, Michael Bonitz

Social Events:

There will be various receptions and it is hoped to arrange a whisky tasting/appreciation event. Sightseeing tours will be available on demand.

Important Dates:

- Deadline for 1-page abstract (extended): 22nd April, 2009
- Acceptance notice: June 1st, 2009
- Registration: June 26th, 2009 (for early registration)
- Registration fee*: £340 (early registration); £400 (late registration)
- Reduced fee for students: £ 250 (early registration); £290 (late registration)
- Reduced fee for accompanying persons: £70 (does not include proceedings, but includes excursion(s))
- Financial Support: support for Eastern European participants is expected.
- For other participants limited support will be available.
- Manuscript submission deadline: August 17th, 2009 (referral during workshop)
- Final version deadline: October 1st, 2009
- For details and updates, **registration and hotel forms, banquet**, see: <http://www.gla.ac.uk/services/cvso/registerforevent/>
- Contacts: Prof. John Barker (jbarker@elec.gla.ac.uk), Dr. Scott Roy (S.Roy@elec.gla.ac.uk), Prof. Mike Bonitz (bonitz@physik.uni-kiel.de)
- Further details will appear on the conference web site: <http://www.elec.gla.ac.uk/pngf4/>

[*] Includes: basic costs, one conference proceedings (Journal) per participant, breakfast, coffee/tea etc during conference, receptions.