2nd Announcement: Conference on

Nonlinear Coherent Structures in Physics and Biology

Heriot-Watt University
Edinburgh, Scotland

July 10–14 1995

This is the second announcement of a meeting on "Nonlinear Coherent Structures in Physics and Biology", to be held in Scotland from Monday 10 July to Friday 14 July 1995. Talks will begin after lunch on the Monday and end at 5pm on the Friday. An informal workshop will be organised for Saturday 15 July. If you haven't seen the first announcement, please email the organisers for a copy, although most of the important bits are duplicated in this version.

The meeting will be held at Heriot-Watt University, a few miles from the centre of Edinburgh. Most participants will be housed in campus accommodation. The local management of the meeting will be run by Professor J C Eilbeck (chris@ma.hw.ac.uk) and Dr D B Duncan (dugald@ma.hw.ac.uk), of the Department of Mathematics.

The conference finances will be run on a minimal basis with a registration fee of £50 (US \$95, CAN \$130) before 31 April 1995 and an additional late registration fee of £30. The accommodation charge includes breakfast, lunch, coffee and tea (but not an evening meal), and is £30.50 per person per day (single room) or £22 per person per day (shared room). You should allow about £5-7 for an evening meal. Accommodation is limited so early registration is encouraged. We are still attempting to attract some small supporting grants which will in most cases be available to support young researchers.

We are grateful to the London Mathematical Society, the Royal Society of London, and the Edinburgh Mathematical Society for financial support.

The organizers would like to encourage all communications regarding the conference to be carried out by email as far as possible. A WWW page containing up-to-the minute information will be maintained on the URL `http://www.ma.hw.ac.uk/~chris/soliton_conf.html`
The following talks/speakers have already been confirmed:

MarkAlber (Notre Dame, IN)
 "New types of soliton solutions for nonlinear equations"
Larissa Brizhik (Kiev)
 "Stationary soliton states obeying two-component nonlinear Schrödinger equations"
Peter Christiansen (Lyngby)
 "Blow-up and thermal fluctuations in the Nonlinear Schrödinger equation"
Peter Clarkson (Kent)
 "Symmetry reductions and exact solutions of shallow water wave equations"
Thierry Dauxois (Lyon)

“Stability of periodic array of hydrodynamical vortices”
Silvana S De Lillo (Perugia)
“NLS solitons under stochastic forcing”
Victor Enolskii (Kiev)
“Abelian Bloch solutions of multi-dimensional Lame equation”
Nikos Flytzanis (Crete)
“Size effects in Josephson Junctions”
Thanasis Fokas (Loughorough)
“Asymptotics and Integrability”
Allan Fordy (Leeds)
“A new integrable class of coupled NLS equations and related Garnier systems”
Yuri Gaididei (Kiev)
“Nonlinear excitations in two dimensional molecular structures with impurities”
Nitant Kenkre (Albuquerque, NM)
“Studies of the Microscopic Validity of the Discrete Nonlinear Schrödinger Equation”
Yuri Kivshar (Canberra)
“Solitons due to second harmonic generation”
Martin Kruskal (Rutgers/Princeton) “Exponentials in the Painleve’ test”
Franz Mertens (Bayreuth) “Cycloidal trajectories of vortices in the 2D anisotropic Heisenberg mode”
Alexandre Mikhailov (Moscow)
“Interaction of Solitons with Radiations (Non-soliton part)”
Jerry Moloney (Tucson)
“Issues Relating to the Arrest of Critical Collapse of Femtosecond Pulses
in Normally Dispersive Self-focusing Media”
Michel Remoissenet (Bourgogne)
“Modulational Instability in real systems”
Mike Russell (Rutherford Lab.)
“Evidence for energetic anharmonic excitations and applications”
Mario Salerno (Salerno)
“The generalization of the Bethe Ansatz to nonintegrable systems”.
Alwyn Scott (Tucson/Lyngby)
“The problem of consciousness”
Vladimir Zakharov (Moscow) “To be Announced”
Alex Zolotaryuk (Kiev)
“Nonlinear proton dynamics in hydrogen-bonded networks”.

In addition the participants listed below have indicated an intention of attending, and in many cases giving a poster or verbal presentation. Attendence in some cases may depend on support available.

Alexander Eremko (Kiev)
Igor V Barashenkov (Cape Town)
Hans-Juergen Schnitzer (Bayreuth)
Sergei Bulgakov (Madrid)
Luis Vazquez (Madrid)
Victor M. Perez Garcia (Madrid)
Angel Sanchez (Madrid)
Alexey Ustinov (Juelich)
Sergej Flach (Dresden)
B.Chesca (Dubna)
Salvador Jimenez (Madrid)
Oksana Chubykalo (San Sebastian)
Roland Huss (Bayreuth)
Giorgos P. Tsironis (Crete)
Jerzy Zagrodzinski (Warsaw)
Sergei Turitsyn (Duesseldorf)
Andreas Mayer (Regensburg)
Dietrich Bonart (Regensburg)
M. H. Farahi (Leeds)
Dan Anderson (Chalmers)
Manuel Garcia Velarde (Madrid)
Leonor Cruzeiro-Hansson (Birkbeck)
Michael Zaks (Potsdam)
Maria Gandarias (Spain)
Alexander Samsonov (St Petersburgh)
Yuriy A. Kosevich (Moscow)
Roberto Monaco (Salerno)
Maxim Bazhenov (Nizhny Novgorod)
Alexander Kovalev (Kharkov)
Arnold Kosevich (Kharkov)
Fatkhulla Abdullaev (Tashkent)
Sergey Darmanyan (Tashkent)
Giuseppe Vitiello (Salerno)
Elena Kononenko (Ural)
Nikolay Kostov (Bulgaria)
Vladimir Konotop (Madeira)
Alexei Kolezhuk (Kiev)
Wieslaw Krolikowski (Canberra)
Oleg Usatenko (Kharkov)
Dave Kaup (Clarkson)
Boris Malomed (Tel Aviv)
Andrew Pickering (Brussels)
Dirk Hennig (Berlin)
Lazaro Salem (Stavanger)
James Gleeson (UC, Dublin)
Patrick Marquie (Dijon)
Robin Bullough (UMIST)
Alan Evans (Kent)
Lisa Bernstein (Idaho)
Stefan Lampenscherf (Dresden)
Renzo L. Ricca (UC London)
Dana Nicolau (UC Dublin)
Andreas Neuper (Bayreuth)
Tom Priestley (Exeter)
Joel Pouget (Paris)
Orlando Ragnisco (Rome)
John Parkes (Strathclyde)
John Dixon (Warwick)
Frank Riordan (UC, Cork)
Alessandro Campa (Italy)
Beata Trpisova (Alberta)
Igor Mel'nikov (Moscow)
Alan Common (Univ. Kent)
Andrew Hicks (Univ. Kent)
Jose Luis Marin (Zaragoza)

All participants are now asked to register, by email if possible, using the standard form below to facilitate making up a computer data base. The deadline to avoid paying the late registration fee is 31 April 1995. If your attendence is conditional on you receiving support from the conference or some other source, register anyway as soon as possible. All delegates except those whose fees have been waived are required to mail their registration fee to the organisers before the required date. We accept sterling cheques, Eurocheques made out in sterling (for Eurocheques, **please ensure you write your Eurocard number on the back**), US dollar cheques drawn on US banks, or Can dollar cheques drawn on Canadian banks. Contact the organisers if you can't manage one of these options. Cheques should be made payable to "Heriot-Watt University". The registration fee will act as a **non-returnable** deposit on your accommodation costs. Your accommodation costs will be payable in full in sterling on your arrival. (There is a bank on the campus). See above for the amounts you will require. In addition there may be a conference dinner organised which will add another £5-8 to the normal evening meal charge.

No decision has yet been made on a conference proceedings, but publishers are becoming increasing selective and will require a actively refereed proceedings. You have a chance to indicate your interest in this on the registration form.
Those without access to email should write to

Chris Eilbeck
Department of Mathematics
Heriot-Watt University, Riccarton
Edinburgh EH14 4AS, UK, Tel: +44 (0)131 451 3220, Fax: +44 (0)131 451 3249
Registration Form: Please fill this in by adding the required information after the colon(:), you may add more than one line if necessary. (Return by e-mail if possible.)
For example:

```
[*]Family name: Eilbeck
[*]First name(s): J Chris

===============================Registration Form================
[*]Family name:
[*]First name(s):
[*]Gender (M/F):
[*]email address:
[*]Institutional Affiliation:
[*]Postal address:
[*]City:
[*]Postcode:
[*]Country:
[*]Telephone:
[*]Fax:
[*]Title of proposed contribution:
[*]Talk or Poster? (T/P):
[*]in favour of refereed conference proceedings (Y/N):
[*]Accommodation required Sun night 9 July (Y/N):
[*]Accommodation required Mon-Thurs nights 10-13 July (Y/N):
[*]Accommodation required Fri night 14 July (Y/N):
[*]Accommodation required Sat night 15 July (Y/N):
[*]I will arrange my own accommodation (Y/N):
[*]Please send a hotel brochure (Y/N):
[*]I will post my registration fee to you before 31 April (Y/N):
[*]My conference fee has been waived by agreement (Y/N):
[*]I have already been promised support from
          conference funds or other grants (Y/N):
[*]My attendance is dependent on me receiving support from
          conference funds or other sources (Y/N):
[*]Special requests (extra nights, vegetarian diet, request to
    share rooms, special needs, etc.):
======================End of Registration Form=================
```