Program

Mini-workshop on

“Complex Flows and Turbulence”

Department of Physics, Federal University of Pernambuco,
Recife, PE, Brazil

December 6-7, 2012
<table>
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<th>Time</th>
<th>Dec 6, 2012 (Thursday)</th>
<th>Dec 7, 2012 (Friday)</th>
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<tr>
<td>09:00 - 09:30</td>
<td>Jon Otto Fossum</td>
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<td>09:30 - 10:00</td>
<td>Zbigniew Rozynek</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break</td>
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<td>10:30 - 11:00</td>
<td>Giovani Vasconcelos</td>
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<td>11:00 - 11:30</td>
<td>Luca Moriconi</td>
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<td>11:30 - 12:00</td>
<td>José Soares Andrade Jr.</td>
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<td>12:00 - 14:00</td>
<td>Lunch</td>
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<td>14:00 - 14:15</td>
<td>Opening</td>
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<tr>
<td>14:15 – 15:00</td>
<td>Mark Mineev-Weinstein [Keynote Seminar]</td>
<td>Poster Session</td>
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<td>15:00 - 15:30</td>
<td>Márcio Carvalho</td>
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<td>15:30 - 16:00</td>
<td>José Américo Miranda</td>
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<td>16:00 - 16:15</td>
<td>Coffee Break</td>
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<td>16:15 - 16:45</td>
<td>Stefanella Boatto</td>
<td>Mogens H. Jensen [Physics Colloquium]</td>
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<td>16:45 - 17:15</td>
<td>Wilson Barros Jr.</td>
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<td>17:15 - 19:00</td>
<td>Discussions</td>
<td>Discussions/Poster Session (continued)</td>
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<td>19:00 -</td>
<td>Dinner</td>
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Mini-Workshop on Complex Flows and Turbulence
Universidade Federal de Pernambuco, Recife, Brazil, December 6-7, 2012

6/12 Thursday:

1400-1415 Opening:
Giovani Vasconcelos, UFPE, Recife, Brazil
Jon Otto Fossum, NTNU, Trondheim, Norway

1415-1600 First afternoon session:
Chair: Giovani Vasconcelos, UFPE, Brazil
1415-1500 Mark Mineev-Weinstein (NMC, Los Alamos, USA)
Physics and mathematics of the doubly-connected Laplacian growth
1500-1530 Márcio da Silveira Carvalho (PUC, Rio de Janeiro, Brazil)
Free surface flows of complex liquids
1600-1630 José Américo Miranda (UFPE, Recife, Brazil)
Nonlinear traveling waves on confined ferrofluids

1600-1615 Coffee break

1615-1715 Second afternoon session:
Chair: Jon Otto Fossum, NTNU, Norway
1615-1645 Stefanelia Boatto (UFRJ, Rio de Janeiro, Brazil)
Point vortex dynamics on surfaces of revolution
1645-1715 Wilson Barros Jr. (UFPE, Recife, Brazil)
MRI studies of liquids and gels

1715-1900 Discussions
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7/12 Friday:

0900-1000  First morning session:
Chair: Marcio Carvalho, PUC-Rio, Brazil
0900-0930  Jon Otto Fossum (NTNU, Trondheim, Norway)
Droplets and emulsion flow
0930-1000  Zbigniew Rozynek (NTNU, Trondheim, Norway)
Active structuring of colloidal armour on liquid drops

1000-1030  Coffee break

1030-1200  Second morning session:
Chair: Mogens Jensen, Niels Bohr Institute, Denmark
1030-1100  Giovanni L. Vasconcelos (UFPE, Recife, Brazil)
Multicanonical formalism for turbulence
1100-1130  Luca Moriconi (UFRJ, Rio, Brazil)
Log-Poisson cascade description of turbulence
1130-1200  José Soares Andrade Jr. (UFC, Fortaleza, Brazil)
Constricted complex flows

1200-1400  Lunch

1400-1600  Poster session
Chair: Wilson Barros Jr., UFPE, Brazil

1600-1615  Coffee break

1615-1715  Physics Colloquium:
Chair: Giovani Vasconcelos, UFPE, Brazil
1615-1715  Mogens H. Jensen (Niels Bohr Institute, Copenhagen, Denmark)
Life in Turbulence

1715-1900  Poster session (Continued)
Poster presenters (13 posters):

Domingos Sávio Pereira Salazar (UFRPE, Recife, Brazil)
*Multicanonical distribution: Maximum entropy approach*

Eduardo Olímpio Ribeiro Dias (UFPE, Recife, Brazil)
*Variational scheme towards an optimal lifting drive in fluid adhesion*

Fabio Magalhães de Novaes Santos (UFPE, Recife, Brazil)
*The Kerr/CFT correspondence*

Florentino Gomes de Oliveira (UFPE, Recife, Brazil)
*Forest fire on heterogeneous environment*

João Vitor Nogueira Fontana (UFPE, Recife, Brazil)
*Radial viscous fingering in yield stress fluids: onset of pattern formation*

Jon Otto Fossum (NTNU, Trondheim, Norway)
*Carbon dioxide intercalation in a clay at near-ambient conditions*

Giovani L. Vasconcelos (UFPE, Recife, Brazil)
*Vortex motion around a circular cylinder*

Marcel N. Moura (Oslo Univ., Norway)
*Pressure-driven two-phase flow in a quasi-two-dimensional porous medium*

Messias Vilbert de Souza Santos (UFPE, Recife, Brazil)
*Minimal subtraction in competitive systems of the Lifshitz type*

Pablo Souza de Castro Melo (UFPE, Recife, Brazil)
*Dissipative non-linear dynamics in reverse rotations of a circularly-driven rigid disk*

Sérgio A. Lira (UFPE, Recife, Brazil)
*A phase-field approach to actin-based motility of lamellar fragments*

Thiago de A. S. Silva (UFPE, Recife, Brazil)
*Unpacking flow of a wire from a two-dimensional cavity*

Victor Hugo H. Cavalcanti (UFPE, Recife, Brazil)
*Blockage effects in the unpacking flow of a wire from a three dimensional cavity*