Self-Organization of Cytoskeletal Networks

One-Day Workshop (Thursday, October 13, 2011)
Rooms T0.08-T0.09, Clinical Trials Unit Building
Warwick Medical School, Gibbet Hill Campus, University of Warwick

Workshop Programme

**Morning Session (09.00 – 12.30)**
(45 minutes talks by speakers)

09.00 – 09.45 Rob Cross (Warwick CMCB) Motorising microtubule dynamics
09.45 – 10.30 Justin Molloy (NIMR) How myosin-10 navigates the cytoskeletal jungle
10.30 – 11.00 Coffee break
11.00 – 11.45 Manlio Tassieri (Glasgow) Microrheology: monitoring the self-organization of the cytoskeletal filaments, both *in vitro* and *in vivo*
11.45 – 12.30 Shahid Khan (LUMS / MBC) Myosin powered alignment of actin filaments *in vitro*
12.30 – 13.30 Lunch break

**Afternoon Session (13.30 – 17.00)**

13.30 – 15.30 Image Processing & Simulation Demonstrations
- Shahid Khan & Nasir Rajpoot (*Simulation of CaMKII dynamics in dendritic spines*)
- Sam Jefferyes & Nasir Rajpoot (*Modelling motile cells*)
- Ben Fitton, Anne Straube, & Nasir Rajpoot (*Towards automatic kymograph analysis*)
- Richard Tyson & Till Bretschneider (*QuimP for cell motility assessment*)
- Edward Harry & Andrew McAinsh (*Tracking kinetochores*)
15.00 – 15.30 Tea Break
15.30 – 16.45 Panel Discussion: Modelling living cells: Gaps between *in silico* and *in vivo*
   - Till Bretschneider, Nigel Burroughs, Rob Cross, Shahid Khan, Andrew McAinsh, Justin Molloy, Anne Straube, Manlio Tassieri
16.45 – 17.00 Closing Remarks
18.15 Depart for Dinner (Stratford-upon-Avon)

Tea, coffee, and lunch will be served.

If you would like to attend this event or join us for dinner (please indicate), please email Nasir Rajpoot (at nasir@dcs.warwick.ac.uk) by 2pm on Wednesday, the 12th of October.