



CENTRO INTERNAZIONALE PER LA RICERCA MATEMATICA

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SCHEDULE
"MODELS OF INTERPHASE REGIONS"

Villa Madruzzo, December 5-7, 1994

Monday, December 5

Morning session (Chair: P. Podio Guidugli)

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| 9:00 | Opening address |
| 9:10 | B.D. Coleman: <i>On morphological changes caused by surface diffusion</i> |
| 10:05 | Coffee |
| 10:30 | K. Hutter: <i>Electromechanical interactions on phase-change surfaces</i> |
| 11:10 | A. Tiero: <i>A model for interface motion</i> |
| 11:50 | Session ends |
| 12:45 | Lunch |

Afternoon session (Chair: M.E. Gurtin)

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| 15:00 | G. Bellettini: <i>Anisotropic motion by mean curvature in the context of Finsler geometry</i> |
| 15:55 | C. Verdi: <i>Finite element approximation of curvature driven interfaces</i> |
| 16:35 | Intermission |
| 17:00 | S. Kamin: <i>Metastable configurations in upward propagating flames</i> |
| 17:40 | M. Frémond: <i>Phase change with solute-supercooling. The interphase domain</i> |
| 18:35 | Session ends |
| 19:30 | Dinner |



Tuesday, December 6

Morning session (Chair: B.D. Coleman)

- 8:30 J.K. Knowles: *Dynamics of thermoelastic phase transitions*
9:25 M.E. Gurtin: *The nature of configurational forces*
10:20 Coffee
10:40 G.C. Alfonso: *Crystal-amorphous interphase in semicrystalline polymers*
11:20 E. Fried: *Transition zone analogues for energy and stress on sharp phase interfaces*
12:15 Session ends
12:45 Lunch

Afternoon session (Chair: J.K. Knowles)

- 15:00 R. Abeyaratne: *Kinetics of thermoelastic phase transitions*
15:55 P. Cermelli: *Effect of bulk deformation and surface tension on the growth of a coherent inclusion*
16:35 Intermission
17:00 P.H. Leo: *Models of partially coherent interfaces*
17:55 Session ends
19:30 Dinner

Wednesday, December 7

Morning session (Chair: M. Pitteri)

- 8:30 H. Gouin: *Boundary conditions in second-gradient theory*
9:25 P. Seppecher: *Moving contact line in Cahn-Hilliard theory*
10:05 Coffee
10:30 W. Kosinski: *2D nonsubstantial continuum modelling 3D regions constituted by second gradient continua*
11:10 F. Dell'Isola: *Internal capillarity: microscopic bubbles*
11:50 Session ends
12:45 Lunch

Afternoon session (Chair: A. Di Carlo)

- 14:30 A. Blinowski: *Topology changes in the flow of non-classical capillary liquids*
15:25 G. Rotoli: *Small radius behavior of surface tension of a vapor bubble in liquids*
16:05 C. Wozniak: *Phase transition and interphase regions for vibrations of micro-damaged laminates*
16:45 Closing remarks
17:00 Meeting ends
19:30 Dinner