ROCKY MOUNTAIN
JOURNAL OF MATHEMATICS
Volume 21, Number 2, Spring 1991

SPEAKERS AND THEIR TITLES AT THE CONFERENCE

Nicholas Alikakos, *Stabilization for a class of discrete monotone systems.*
Sigurd Angenent, *The dynamics of rotating waves in scalar reaction-diffusion equations.*
Donald Aronson, *Local smoothness of flows in one dimensional porous media.*
John Ball, *Fine phase mixtures as minimizers of energy.*
Peter Bates, *The singular limit in a phase field model.*
Jerrold Bebernes, *Blow-up; where and how.*
Marco Biroli, *Almost periodicity and degenerate parabolic equations.*
Gunduz Caginalp, *A phase field approach to solidification.*
Alfonso Castro, *Energy analysis of the solutions to a singular initial value problem.*
John Chadam, *Reaction infiltration instabilities.*
Constantine Dafermos, *Singular perturbations of a conservation law with memory.*
Steven Dunbar, *A branching random evolution and a nonlinear hyperbolic equation.*
Paul Fife, *The statics and dynamics of phase field models.*
Paolo Fiscon, *Asymptotic behavior of the solutions for a class of quasilinear parabolic equations.*
Giorgio Fusco, *Computing the connection matrix for some scalar parabolic equations.*
James Glimm, *Nonlinear hyperbolic waves and unstable interfaces: Theory and computation.*
Morton Gurtin, *On the mechanics and thermodynamics of phase transitions.*
Jack Hale, *Attractors for singularly perturbed problems.*
Jesus Hernandez, *Positive solutions for some stationary reaction-diffusion systems.*
Ulrich Hornung, *Modelling chemical reactions in porous media.*
Joost Hulshof, *An elliptic-parabolic Neumann problem in several space dimensions.*
Christopher Jones, *Topological techniques for the stability of travelling waves.*

James Keener, *Pathological behavior in coupled nerve fibres and its implication to cardiac arrhythmogenesis.*
Robert Kohn, *Asymptotics of blow-up in semilinear heat equations.*
Kenneth Kuttler, *Weak solutions of initial-boundary value problems for a class of nonlinear viscoelastic equations.*
Brenton LeMesurier, *Numerical study of singular solutions to the nonlinear heat equation by the dilation transformation.*
Robert Lipton, *Optimal bounds and the G-closure problem for two-dimensional homogenized incompressible elasticity.*
Roger Lui, *Speed of propagation for a system of difference equations.*
John Mallet-Paret, *Poincare Bendixon theory for monotone systems.*
Alexander Mielke, *Center manifolds for quasilinear PDE's.*
Luciano Modica, *The gradient theory of phase transitions.*
Jeff Morgan, *Global existence for a class of semilinear parabolic systems.*
Yasumasa Nishiura, *Breathing phenomena of reaction-diffusion systems.*
Nicholas Owen, *Nonconvex variational problems with general singular perturbations.*
Dan Phillips, *Anti-plane shear of an elastic tube with a nonconvex stored energy.*
Victor Roytburd, *A model for dynamic phase transitions.*
William Rundell, *Determination of an unknown reaction term in a reaction diffusion equation.*
Paul Sacks, *Qualitative behavior for a class of reaction-diffusion-convection equations.*
Kunimochi Sakamoto, *Existence and stability properties for transition layer solutions.*
Klaus Schmitt, *Bounded perturbations of linear problems at resonance.*
James Serrin, *Shock waves with weak first law thermodynamics.*
Ralph Showalter, *A hyperbolic Stefan problem.*
William Smith, *On the steady-state solution of the wave equations of classical physics in the infrared region.*
Peter Sternberg, *Local minimizers of nonconvex variational problems.*
Andrew Stuart, *Travelling wave solutions for porous medium combustion.*
William Troy, *On nonexistence of similarity solutions.*
Michael Weinstein, *Nonlinear diffusion and the motion of curves in the plane.*
Fred Weissler, *The Cauchy problem for the nonlinear Schroedinger equation.*