

LLNL

10.9.93

COMPUTER MODELING CONFERENCE  
Arzamas 16, RFNC  
(Russia)  
September 6-11, 1993

PROGRAM

Friday, September 10, 1993

NUMERICAL METHODS FOR SOLVING COMPUTATIONAL PHYSICS PROBLEMS

Chairman: V.E. Neuvazhayev

9:00 a.m.-9:30 a.m.

1. Structured adaptive mesh refinement on the connection machine

J. Saltzman

9:30 a.m.-10:00 a.m.

2. EGAK program complex for multi-component medium 2-D flow calculations.

Gavrilova E.S.,	Gubkov E.V.,
birov V.A.,	Sharova G.V.,
Almandict A.I.,	Kovalev N.P.,
avlus'kiy I.N.,	Samigulin M.S.,
Simono P.,	Sin'kova O.,
Sotnikova M.,	Tarasov V.I.,
Toropov A.A.,	Shanin A.A.,
Yuanilkin Yu.V.	

10:00 a.m.-10:30 a.m.

3. Multiphase Flow and Solute Transport in Porous Media  
Melvin Baer

10:30 a.m.-11:00 a.m.

4. Numerical simulation of two-dimensional multicomponent medium flows with component velocity and temperature non-equilibrium.

Gavrilova E.S.,	Gubkov E.V.,
Zhmailo V.A.,	Samigulin M.S.,
Yuanilkin Yu.V.	

11:00 a.m.-11:20 a.m.

BREAK

11:20 a.m.-11:50 a.m.

5. Multiphase Compressible Flow  
Melvin Baer

11:50 a.m.-12:20 p.m.

6. Interface turbulent mixing model properties.  
Neuvazhayev V.E.

12:20 p.m.-12:50 p.m.

7. Numerical simulation of gravitational instability  
using MECH program complex. Adaptive Mesh Techniques  
Anuchina N.N., Ogibina V.N.

LUNCH

Chairman: B.Clark

ID -4 2:00 p.m.-2:30 p.m.

8. Full Spectrum Computing: Very High Performance  
Computing by Combining Heterogeneous Resources into a  
Single Environment

Mark Seager

2:30 p.m.-3:00 p.m.

9. Massively Parallel Hydrodynamics on Unstructured  
Grids

M.Sahota

3:00 p.m.-3:30 p.m.

10. MP-X-Y multiprocessors

Gordienko A.V., Gusev V.A.,  
Lyakishev A.M., Popovidchenko G.A.,  
Runich A.A., Sofronov I.D.,  
Stepanenko S.A., Timchenko V.N.,  
Uzentsov A.A., Kholostov A.A.

3:30 p.m.-3:50 p.m.

BREAK

3:50 p.m.-4:20 p.m.

11. Parallelization of evolutionary problems in  
computational physics.

Sofronov I.D., Sofronova O.I.

4:20 p.m.-4:50 p.m.

12. Potential U.S./Russian Technological Exchanges  
D.Nowak

5:00 p.m.

DISCUSSION OF CO-OPERATION PROPOSALS