

LLNL

9.9.93

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

PROGRAM

Thursday, September 9, 1993

FORMULATION AND NUMERICAL SOLUTION OF CONVERSION PROBLEMS

Chairman: R.Wallace

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

1. Computer simulation capabilities at VNIIEF and their application to safety problems of nuclear power facilities.

Sofronov I.D., Shagaliev R.M.,
Belyakov I.M., Grebennikov A.N.,
Delov V.I., Rasskazova V.V.,
Samigulin M.S., Farafontov G.G.,
Shumilin V.A., Yuanilkin Yu.V.,
Evdokimov V.V., Pletenyova N.P.,
Fedotova L.P.

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

2. Transport Code Development for Nuclear Borehole Logging Applications

Bradly Clark

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

3. Deterministic Neutron and Photon Transport for Industrial Applications

Randy B. Christensen

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

4. Conjugationally consistent DSn-method for solving multi-dimensional equation of neutron transport in curvilinear coordinates.

Serov S.B.

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

BREAK

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

5. Two-dimensional numerical simulation of an imploding double gas-puff plasma

A.D.Zoubov, G.A.Adamkevich,
I.V.Glazyrin and A.A.Kondrat'ev

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

6. Advanced combustion modeling tools

Juan Meza

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

7. Intellectual bank of ecology data for Chelyabinsk region.

Avramenko M.I., Vasilyev A.F.,
Zuyev V.I., Kozmanov M Yu.,
Kol'chugin S.V., Komosko V.V.,
Kuropatenko V.F., Legon'kov V.I.,
Mazurin Yu.N., Simonenko V.A.,
Urusov S.V.

LUNCH

Chairman: D. Novak

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

8. Techniques and programs for computing polydisperse impurity in atmosphere.

Avramenko M.I., Andreyev E.S.,
Vasilyev A.F., Gusev V.Yu., Kozmanov
M.Yu., Kuropatenko V.F., Rachilov
E.B., Simonenko V.A.

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

9. Design Optimization For Manufacturing Problems
Juan Meza

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

10. Geophysical Modeling of Global Response to Asteroid Impact

Mark Boslough

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

BREAK

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

11. 3D Geophysical Modeling and Inverse Problems
Juan Meza

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

12. Monte-Carlo laboratory status in VNIIEF.

Donskoy E.N., Eltsov V.A., Zhitnic
A.K., Ivanov N.V., Kochubey Yu.K.,
Morenko A.I., Roslov V.I., Ronzhin
A.B., Subbotin A.N.

4:50 p.m.-5:20 p.m.

13. Monotone methods for solving non-linear system of radiation transport equations.

Kozmanov M.Yu.

5:20 p.m.-5:50 p.m.

14. Radiative energy transfer 3-D problem solution using angular factors.

Vasina E.G., Dementyev Yu.A.,
Sofronov I.D., Skidan G.I.
Tikhomirova E.N.