

June 7-9, 1999
Moscow, Russia

**2nd ISOPE European Offshore
Mechanics Symposium**

**ISOPE
EUROMS-99 Moscow:**

**International
Pipeline Symposium**
Moscow, Russia; June 7-9, 1999

Technical Program

**Construction and Operations
Engineering and Design**

**Environments
Materials**

Organized by:

International Organizing Committee

Sponsored by:

International Society of Offshore and Polar Engineers (ISOPE)

All-Russia Research Institute for Construction of Pipelines &
Enterprises of Fuel & Energy Sector (AO VNIIST)

ISOPE EUROMS-99 Secretariat:

ISOPE

PO Box 1107

Golden, Colorado 80402-1107, USA

Fax: +1-303-420-3760

Website. <http://www.isope.org>

Welcome to ISOPE EUROMS-99

The exploration of oil and gas in the harsh environment of the Russian Arctic and offshore has shown great prospective. Special pipeline materials and technology are called for. In the development of such technology and environmental solution, the exchange of technical knowledge and fellowship is mutually beneficial to the participating countries.

Coinciding with the 50th anniversary of AO VNIIST, ISOPE and AO VNIIST decided to hold the ISOPE EUROMS-99 in Moscow, focusing on the industry-based topics of pipelines.

We greatly appreciate the excellent responses and help we have received from colleagues in the successful organization of the 2nd ISOPE International Pipeline Symposium (ISOPE EUROMS-99), Moscow, June 7-9, 1999. The symposium features **7 sessions of refereed papers** and **invited papers** from **9** countries.

The purposes of the ISOPE EUROMS-99 Symposium are to:

- promote technological progress and activities, international technological transfer and cooperation, and opportunities for engineers to maintain and improve technical competence; and
 - provide a timely international forum for technical activities, cooperation, opportunity and fellowship among researchers and engineers,
- by developing a focused session topic with high quality papers accepted through rigorous review, establishing high international standards for publication and worldwide distribution and promoting interdisciplinary interaction between academia and industry.

The International Society of Offshore and Polar Engineers (ISOPE) has already held 19 successful international meetings on offshore and Arctic petroleum and minerals technologies and deep-ocean technology.

On behalf of the International Organizing Committee, it is our pleasure to welcome the colleague participants to the ISOPE EUROMS-99 Symposium in Moscow.

Jin S. Chung, USA V. Khomenko, Russia
M. A. Kamyshev, Russia A. St. Tsvetsinsky, Russia

Co-chairmen of the ISOPE EUROMS-99 Symposium

All technical sessions, coffee breaks and group lunches
take place at VNIIST.

Audio/Visual Practice

Auditorium

MONDAY June 7

08:00-12:00

Symposium Registration and Badge Pickup

09:00-09:30

Opening Address, Director, Ministry of Fuel and Energy

Welcome Address by VNIIST

Welcome Address by ISOPE

09:30-11:30

Session 1: CONSTRUCTION AND LAY OPERATIONS I

11:30-12:00 *Coffee Break*

12:00-14:00

Session 2: MATERIALS

14:00-15:30 *Group Lunch*

15:30-18:00

Session 3: ENVIRONMENTS AND DATABASE I

19:00 **SYMPOSIUM RECEPTION**

TUESDAY June 8

09:00-11:00

Session 4: ENGINEERING AND DESIGN I

11:00-11:30 *Coffee Break*

11:30-13:30

Session 5: ENVIRONMENTS AND DATABASE II

13:30-15:00 *Group Lunch*

15:00-18:00

Session 6: ENGINEERING AND DESIGN II

WEDNESDAY June 9

09:00-11:00

Session 7: CONSTRUCTION AND LAY OPERATIONS II

11:00-13:00 Visit to VNIIST Exhibition Hall and
Business Meetings

13:00-14:30 Group Lunch at VNIIST

15:00-17:00 Moscow Excursion

Cosponsored by:

International Society of Offshore and Polar Engineers (ISOPE)
All-Russia Research Institute for Construction of Pipelines &
Enterprises of Fuel & Energy Sector (AO VNIIST)

Cooperated by:

JSC ECO-System, Moscow, Russia

Supported by:

Ministry of Fuel and Energy, Moscow, Russia
Ministry of Science and Technologies, Moscow, Russia
RAO Gazprom, Moscow, Russia
Lukoil Company, Moscow, Russia
AO Stroytransgas, JSC, Moscow, Russia

Secretariat:

For Foreign (non-CIS) Participants:

ISOPE EUROMS-99 IOC, ISOPE, P.O. Box 1107, Golden,
Colorado 80402-1107, USA (Fax 1-303-420-3760)

For CIS Participants:

ISOPE EUROMS-99 c/o. AO VNIIST, 19 Okruzhnoy pr., Moscow
105058, Russia (Fax +7095-366-4393)

International Organizing Committee

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Executive Director: Dr. Jin S. Chung

TECHNICAL PROGRAM

MONDAY JUNE 7

Monday 09:00-09:30 VNIIST Auditorium

Opening Address

Mr. G. G. Trofinov, Director, the Project Coordination Department,
Ministry of Fuel and Energy of the Russian Federation, Moscow, Russia

Welcome by VNIIST

Dr. V. Khomenko, First Vice President, AO VNIIST, Moscow, Russia

Welcome by ISOPE

Prof. Jin S. Chung, Executive Director, ISOPE, Colorado, USA

Monday 09:30–11:30 VNIIST Auditorium

SESSION 1: CONSTRUCTION AND LAY OPERATIONS I

Chair: E.J. Young, Michael Baker Jr., Inc, Anchorage, USA
Co-Chair: A.K. Dertsakyan, Giprospeftgas, St. Petersburg, Russia

Offshore Pipeline Systems on the Russian Shelf: Problems and Prospects

M.A. Kamyshov, AO VNIIST, Moscow, Russia

Deep-Water Pipeline's Pipe Stability at Laying and Presence on the Bottom

V.M. Ryabov, Y.A. Libov, G.A. Schemilinina, Krylov Shipbuilding
Research Institute, St.-Petersburg, Russia

Calculation of Offshore Pipelaying of the Laybarge

L.Q. Chien, O.B. Shadrin, JV "Vietsovpetro", Vung Tau, Vietnam

Colville River Crossing—Directional Drilling Under a Permafrost Bound High Arctic River

C. Wilder, Michael Baker Jr., Inc, Anchorage, Alaska, USA

Pipeline Landfalls in Arctic Regions

J.G. de Vries, Tideway, BV, Breda, The Netherlands

Monday 12:00–14:00 VNIIST Auditorium

SESSION 2: MATERIALS

Chair: V.V. Pritula, AO VNIIST, Moscow, Russia
Co-Chair: A. Colombo, SNAM S.p.A., Milan, Italy

High-Tech Pipes for Reliable Gas Transportation

F. Heisterkamp, A.S. Bolotov, K. Hulka, Y. Matrosov and P. Peters,
Niobium Products Co. GmbH, Düsseldorf, Germany

A Study on the Causes of Crack Occurrences in the P.C. Pipelines of Cooling Water Systems

B.-S. Chun, H.S. Choi, Hanyang University; C.-S. Choi, the Seoul Grouting
Research Center; H.-S. Choi, The Construction Research Institute of
Hanyang University, Seoul, Korea

Assessment of Pipeline Girth Weld Defects

R.A. Jakobsen, Stavanger University College; Y. Bai, JP Kenney A/S; I. Langen, Stavanger, Norway

Determination of Areas of Pipelines Subjected to Internal Corrosion with the Purpose Development of Activities for Their Protection

Ph.D. Thuc, V.I. Boiko, N.T. Khang, JV "Vietsovet", Vung Tau, Vietnam

Internal Corrosion Protection For High Pressure Subsea Pipelines in Water Injection System at Offshore Oil Field "White Tiger"

Ph.D. Thuc, M.Ph. Carimov, D.V. Long, V.V. Dontsov, JV "Vietsovet", Vung Tau, Vietnam

The Increase of Corrosion Stability of Pipes for the Operation in Western Siberia

Ph.A. Medvedev, JSC "Nizhnevartovskneftegas", Nizhnevartovsk, Russia, T. Tetyuyeva, JSC "VNIIneft", Samara, Russia

Monday 15:30–18:00 VNIIST Auditorium

SESSION 3: ENVIRONMENTS AND DATABASE I

Chair: A.S. Tsvetsinsky, EPS ECO-System, Moscow, Russia

Co-Chair: A.M. Polomoshnov, JSC "Rosneft-Sakhalinmorneftegas", Okha, Russia

Integrated Approach to Information Providing Design and Development of Shelf and Coastal Gas Facilities

A.S. Tsvetsinsky, V.S. Toujilkine, B.V. Arhipov, EPS Eco-System, Moscow, Russia; N.N. Mihailov, VNIIGMI-MCD, Moscow region, Obninsk, Russia; L.V. Shershneva, VNIIGAS, Moscow region, Razvilka, Russia

Use of RADARSAT SAR Data in Ice Management and Planning of Russian Arctic Offshore Operations

S. Sandven, O.M. Johannessen, L.H. Pettersson, K. Kloster, Ø. Dalen and K. Kloster, Nansen Environmental and Remote Sensing Center, Solheimsvik, Norway; L.P. Bobylev, V. Yu. Alexandrov and V.V. Melentiev, Nansen Environmental and Remote Sensing Center, St. Petersburg, Russia

Ecological Problems of Trunk Pipeline Construction in Permafrost

I.I. Mazur, JSC Rosneftegasstroy, Moscow, Russia

Investigation of Stamukhas on the Northern Sakhalin Offshore

A.M. Polomoshnov, JSC "Rosneft-Sakhalinmorneftegaz", SakhalinNIPI-morneft, Okha, Russia

Procedure of Appraising Natural Conditions for Selection of Nearshore Section of Offshore Pipeline Route at the Preliminary Engineering Stage

S.P. Alexeev, A.N. Dobrotvorsky, State Research Navigation-Hydrographic Institute (Gos NINGI), St. Petersburg, Russia; A.M. Serebryakov, North Transgas Oy, Espoo, Finland; E.V. Stavrova, DOAO "Giprospeftgas", St. Petersburg, Russia

Ice Gouge Mapping Survey off the Northeastern Coast of Sakhalin Island

A.V. Klepikov, V.N. Malek, Arctic & Antarctic Research Institute, St. Petersburg, Russia; J.P. Poplin, Exxon Production Research Co., Houston, USA; A.T. Wang and S.P. Beketsky, Exxon Neftegas Project Services Inc., Houston, USA; A.G. Finkelshtein, Intershelf - STM, St. Petersburg, Russia

TUESDAY JUNE 8

Tuesday 09:00–11:00 VNIIST Auditorium

SESSION 4: ENGINEERING AND DESIGN I

Chair: Yu.S. Oseredko, JV "Vietsovetpetro," Vung Tau, Vietnam
Co-Chair: R.A. Jakobsen, Stavanger University College, Stavanger, Norway

Methods of Numerical Simulation of Technological Parameters of Deep-Water Pipelines Under Installation

A.I. Ermolenko, L.V. Melnik, Institute of Hydromechanics of the National Academy of Sciences, Kiev, Ukraine; M.A. Kamyshev, AO VNIIST, Moscow, Russia

The Vortex Vibration of Pipelines Causing by the Stream and Wind Seas during the Installation on a Ground and Under Service Conditions: a Factor of Appearance of Crashes and Reducing the Service Life

S.I. Devnin, V.V. Tushkevich, L.I. Volodicheva, I.B. Vinogradova, Krylov Shipbuilding Research Institute, St.-Petersburg, Russia

Influence of Load Steps and Boundary Conditions on Torsion of Free-Span Pipeline

J. S. Chung, Colorado School of Mines, Golden, Colorado, USA

Thaw Settlement Analysis for the Colville River Crossing

J.A. Maple, J.A. Maple & Associates, Baytown, Texas, USA

Assessment of Reliability Parameters of Deep-Water Pipelines in the Stage of Design

V.M. Kovekh, Mechanical Engineering Research Institute, Moscow, Russia; I.N. Kurganova, S.V. Nefedov, V.M. Silkin, VNIIGAZ, Moscow region, Razvilka, Russia

Studying the Problems of Designing and Laying the Main Gas Pipeline from Shtockmanovskoye Field

A.K. Dertsakyan, M.F. Trubachev, Giprospeftgas; V.A. Avdyushkin, GosNINGI; V.V. Minin, N.I. Petrov, Yu.A. Simonov, Krylov Shipbuilding Research Institute, St. Petersburg, Russia

Tuesday **11:30–13:30** **VNIIST Auditorium**

SESSION 5: ENVIRONMENTS AND DATABASE II

Chair: G.I. Odisharia, Chief of Department, VNIIGAS, Moscow, Russia
Co-chair: N.N. Mihailov, Chief of COD, VNIIGMI-MCD, Obninsk, Russia

Prediction of Hazardous Zones Resulting from LPG or Natural Gas Pipeline Rupture

A.S. Yedigarov, G.E. Odisharia, Research Institute of Natural Gases & Gas Technology (VNIIGAS), Moscow region, Razvilka, Russia

Elaboration of Methods and Passive Units of Vibro-Damping Oscillations Diffused by a Source Along Tubings

E.G. Berestovsky, V.M. Korchanov, V.Z. Sirotnikov, Concern "AVRORA", St.-Peterburg, Russia

Current and Wind Regime on the Black Sea Shelf near the Novorossiisk (Yuzhnaya Ozereevka)

V.G. Krivosheya, A.Yu. Skirta, L.V. Moskalenko, Southern Branch of the P.P. Shirshov Institute of Oceanology, Gelendzhik, Russia; V.V. Monakhov, Caspian Pipeline Consortium-P, Moscow, Russia; P.D. Higley, Specialty Devices Inc., Plano, Texas, USA

Estimation of Possibility of Location of Drilling Waste on the Sea Floor of Pechora Sea in the Area of Prirazlomnoye Deposit

G.G. Matishov, I.A. Shparkovsky, V.M. Muraveiko, O.J. Sochnev, Murmansk Marine Biological Institute of Kola Scientific Center of RAS, Murmansk, Russia

Baydaratskaya Bay Pipeline Crossing: Environmental Problems
A.S. Tsvetsinsky, V.N. Kryjov, B.V. Arhipov, V.S.Tuzhilkin, EPS Eco-System, Moscow, Russia

Tuesday 15:00–18:00 VNIIST Auditorium

SESSION 6: ENGINEERING AND DESIGN II

Chair: J.A. Maple, J.A.Maple & Associates, Baytown, USA
Co-Chair: V.V. Kharionovsky, VNIIGAS, Moscow, Russia

Certifying the Blue Stream According to DNV Submarine Pipeline Rules
G.I. Stirling, E. Tchernov, K. Eriksson, G.B. Castberg, DNV, Høvik, Norway

Submarine Pipeline Free Span Stability
Y.A. Goryainov, OAO "Gazprom", Moscow, Russia; B.L. Feygin, A.S. Fyodorov, ZAO "Petersgaz", Moscow, Russia; V.V. Kharionovski, VNIIGAZ, Moscow region, Razvilka, Russia

Model Test Determination of Dynamic and Kinematic Characteristics of the "Pipe-Laying Ship-Stinger-Pipeline" Complexes in the Support of Their Design
A.V. Ivanov, A.N. Kulikova, N.N. Rakhmanin, Krylov Shipbuilding Research Institute, St.-Petersburg, Russia

Ridge Underwater Pipeline Action
A.T. Bekker, V.I. Seliverstov, K.K. Konstantinov, Far Eastern State Technical University, Vladivostok, Russia

Estimation of Collapse Stability of Pipes Based on the Results of Full-Scale Tests, Imitating Deep-Sea Pipeline Laying
V.N. Goritsky, A.S. Bolotov, AO VNIIST, Moscow, Russia

WEDNESDAY JUNE 9

Wednesday 09:00-11:00 VNIIST Auditorium

SESSION 7: CONSTRUCTION & LAY OPERATIONS II

Chair: M.A. Kamyshev, AO VNIIST, Moscow, Russia
Co-Chair: J.G. de Vries, Tideway, BV, Breda, The Netherlands

Pipeline Vertical Loops
E.J. Young, Michael Baker Jr., Inc, Anchorage Alaska, USA

Diverless Repair of Big Inch Offshore Pipelines
A. Colombo, SNAM S.p.A, Milan, Italy

Conversion of a Ship for Pipe-Laying Operations by Applying High-Speed Welding Process
V.A. Matveyenko, N.V. Amosova, OJSCo. Central Design Bureau "CORALL", Sevastopol, Ukraine

Technique and Technical Means for Year-Round Construction Highly Reliable Subsea Pipelines and River Crosses in Different Conditions Including Conditions in the Arctic and Far East Seas
I. Dubin, Z. Roste, A. Mammaiev, A. Sokolov, N. Pirverdian, VNIPImorneftegas, Moscow, Russia

Overall System of Inspection and Repair, as an Optimum Way to Maintain Safe Operation of Main Oil Pipelines
K.V. Chernyaev, OJSS "Technical Diagnostics Center" AK "Transneft", Moscow region, Russia

Pipelaying Vessel for the Baidaratskaya Bay Conditions and

Other Shallow Waters of the Russian Northern Seas
V.M. Potapov, OJSCo. Central Design Bureau "CORALL", Sevastopol,
Ukraine

GENERAL INFORMATION

PLACE AND DATE: Moscow, Russia; June 7-9, 1999

AO VNIIST
19 Okruzhnoy pr.
Moscow 105058, Russia
(Fax +7095-366-4393)
Located within walking distance from **IZMAILOVO** Hotel.

PARKING: Free parking.

LANGUAGE
The languages for the symposium are English and Russian. Limited translation services will be arranged.

AIR TRAVEL
Most major airlines fly from all major cities around the world to Moscow Sheremetevo 2 International Airport. The participants should plan early and ask their local travel agents to obtain the *most favorable flight ticket prices*. Early bookings may offer lower fares.

CURRENCY EXCHANGE
Currency can be exchanged in the banks and exchange offices. Notice the exchange rate fluctuation. Usually, the rates in the city are better than at airport.

AIRPORT TO IZMAILOVO Hotel
You can reach IZMAILOVO Hotel and VNIIST Moscow Sheremetevo 2 International Airport **by bus and subway or taxi**.
Subway Ride (in Russia subway is named METRO. You can find METRO stations under big red letters M): Take bus or shuttle to Rechnoy Voksal metro station; take **green** line and in some 20 to 25 minutes get off at Station *Teatralnaya* Transfer to Station *Ploshad Revolutsii* on the **deep blue** line and in some 20 minutes get off at Station *Izmailovsky Park*. **IZMAILOVO Hotel** is at the metro station in 3 to 5 minutes walking.
Taxi Ride: It takes about 40 minutes during the off-peak traffic hours and costs some 400 to 500 Rubles. Currency may be changed at the airport exchange office

HOTEL ACCOMMODATION: fill in the Reservation Form in this program and send it by fax to Dr. M. Kamyshev, AO VNIIST; Fax +7095-366-4393

Methods of Payment. No advance deposit is required. Pay directly to the Izmailovo Hotel as you check in. Payment is accepted in Russian Rubles only: no credit cards. Currency exchange is available in the Hotel. It is better to have US Dollars, as other country currencies may be changed in only the banks. Early April rate is some 25 rubles per 1 dollar.

HOTEL TO VNIIST
A person from VNIIST will meet foreign participants at 08:00 Monday at the hotel reception desk. Also, see the scheme p. 12.

CITY TRANSPORTATION
The most convenient transportation in Moscow is

METRO if you can read the station names in Russian. Also, buses, trams and trolley-buses run regularly.

MOSCOW Excursion: Wednesday, June 9

You may reserve a space for an excursion at the symposium registration desk on **June 7**.

OTHER TOURS (make reservations as you arrive at the hotel)

ADVANCE SYMPOSIUM REGISTRATION BY MAIL OR FAX (use the Registration Form): Non-Russian Participants

Remember to send via airmail (or fax if paying by credit card) the Advance Registration (and Invoice) Form in this Program to reach **ISOPE EUROMS-99 Secretariat, ISOPE, PO Box 1107, Golden, Colorado 80402-1107, USA, before May 3**. For payment by a credit card (MasterCard or VISA only) via **FAX (+1-303-420-3760)**, the card number should be typed in bold face or written clearly to be readable in the transmitted fax copy.

Forms received **after May 3** will be returned to the senders for on-site registration with a **surcharge of US\$70**. Registrants will not be separately invoiced.

ISOPE EUROMS-99 ADVANCE SYMPOSIUM REGISTRATION FEES (if received before May 3, 1999)

All foreign or non-Russian participants shall pay the fee only in US\$ directly to ISOPE. Use the Advance Registration Form in this program or a copy. All persons attending the symposium are required to register, pay the appropriate fee, and get symposium badge. Registration fees (note **US\$70 surcharge after May 3** for on-site registration) are as follows:

Category	Advance Registration Fee (US\$)*
Author, Co-Author (deadline: March 2)	450
Session Chair, Co-Chair Author	450
Non-Authors	500
Spouses (badge only)	N/C
Additional/Separate Tickets*	\$45
TOTAL AMOUNT DUE	US\$

* The Symposium registration fee includes a symposium reception ticket, daily group lunch tickets, tea breaks, and a proceedings of symposium synopsis including individual author-prepared papers.

REGISTRATION CANCELLATIONS

Request for the cancellation of advance registration must be received in writing by **May 5, 1999** to be granted a refund minus US\$70 processing charge.

REGISTRATION BADGE

Registration badges are required for admittance to all the symposium activities, including the reception and lunch.

ON-SITE SYMPOSIUM REGISTRATION

Participants who miss the advance registration may register at the Symposium Registration Desk at VNIIST. The registration desk will be open during the following hours:

Sunday, June 6	12:00-18:00
Monday, June 7	08:00-16:00

ISOPE PUBLICATION ORDER

A copy of Proceedings of ISOPE EUROMS-99 Symposium Synopsis is included in the registration fees. The proceedings volume (120 pp. est.) can be ordered by mail at:

\$50 (ISOPE Member \$40) including the surface-mail charge.

All ISOPE PUBLICATION can be ordered from ISOPE, P.O. Box 1107, Golden, Colorado 80402-1107, USA (or ISOPE, P.O. Box 189, Cupertino, California 95015-0189, USA): FAX 1-303-420-3760. Advance payment is required. MasterCard or VISA card, international money order or U.S. bank checks in US Dollar *payable to* ISOPE will be accepted. Shipping and handling charges are included.

**SYMPOSIUM
HEADQUARTERS**

Registration Desk at VNIIST

SYMPOSIUM RECEPTION
19:00 MONDAY

VNIIST

AUDIO VISUAL PRACTICE ROOM

Session Room

A set of overhead projector and 35-mm slide projector and screen will be set up from 08:00-09:00 (Monday and Tuesday) in the session rooms.

INTERNATIONAL PARTICIPANTS AND VISA APPLICATION

International authors, participants or attendees who need help (except financial) should contact: **Dr. M. Kamyshev, AO VNIIST, 19 Okruzhnoy pr., Moscow 105058, Russia (Fax +7095-366-4393) or ISOPE, PO Box 1107, Golden, Colorado 80402-1107, USA (Fax +1-303-420-3760).**

ENTRY VISA. Speakers and participants from many countries are required to apply for an entry visa. Promptly contact **Dr. M. Kamyshev, AO VNIIST, 19 Okruzhnoy pr., Moscow 105058, Russia (Fax +7095-366-4393)**, providing your passport information, organization name, address and fax number.

CLIMATE AND CLOTHES

The weather in Moscow in June usually is fine, 18–23 °C, but don't forget an umbrella.

HOTEL RESERVATION FORM

(Do not send this form to ISOPE)

IZMAILOVO Hotel
Ismailovskoe shosse, 71/2

This form must be received **via fax** and no later than **April 30, 1999**
by:

Dr. M. Kamyshev
AO VNIIST
19 Okruzhnoy pr., Moscow 105058, Russia
Fax +7095-366-4393

Dr. Kamyshev will fax you his confirmation.

First (Fore)
Surname: _____ & Middle: _____

Circle: Male Female; Title Mr. Ms. Mrs. Prof. Dr.

Company: _____

Address _____

City _____ Country _____

Postal (ZIP) Code _____ Fax No. _____

Arrival: June __ Time ____; Departure: June __, Time ____

Room Choice* indicate by number:
<input type="checkbox"/> Single
<input type="checkbox"/> Double
<input type="checkbox"/> Luxury

* Symposium room rates in early April 1999 are \$25, \$45, \$120 rubles, respectively, and may increase in June 1999. Due to fluctuation of room rates and exchange rates, the best room rates will be arranged by Dr. Kamyshev.

Methods of Payment. No advance deposit is required. Pay directly to the Izmailovo Hotel as you check in. Payment is accepted in Russian Rubles only: **No credit cards**. Currency exchange is available in the Hotel. It is better to have US Dollars, as other country currencies may be changed in only the banks. Early April rate is some 25 rubles per 1 dollar.

Signature: _____ Date: _____, 1999

Photocopy, Complete, and Send (or fax) This Form

Reservation after April 30 is subject to room availability.

\\EUROMS\99. 4.5