September, 19 MONDAY

15.00	City Tour	
17.30	Registration	
19.00	Informal Welcome Party	

September, 20 TUESDAY

9.00	**Opening Ceremony**	
Chairs: Alexander Kokorin / Ronald Mason		
9.40	Wolfgang E. Trommer	Structure-Function Relationships in Various Enzymes as Studied by Means of Spin-Labeled Proteins and Substrates
10.20	Klaus Möbius	Combining High-Field EPR with Site-Directed Spin Labeling Reveals Unique Information on Proteins in Action
11.00	**Coffee Break**	
11.20	Valérie Belle	Discrimination between Closed and Open Forms of the Human Pancreatic Lipase using Site-directed Spin Labeling
11.50	Sergey.A. Dzuba	Molecular Dynamics of Spin from Echo-Detected EPR
12.30	Vasily G. Baklykov	New Analytical Equipment Supplied by InterLab Inc.
13.00	**Lunch and excursions**	
Chairs: Gertz Likhtenshtein / Elena Bagryanskaya		
16.00	Yury D. Tsvetkov	Double Electron-Electron Resonance (PELDOR): Application to Studies of Nitroxide Biradicals and Spin Labeled Peptides Properties.
16.40	Jan Raap	Self-assembling Membrane Active Peptides Probed by Nitroxide Spin Labels
17.10	Uwe Eichhoff	Technical Advances in Spin Labeling EPR
17.40	**Coffee Break**	
18.00	Anton Savitsky	Orientation-Resolved Pulsed Dipolar EPR in W-band
18.30	Leonid V. Kulik	Spontaneous ESEEM in Nitroxide Radicals

September, 21 WEDNESDAY

Chairs: Lev Weiner / Rui Tamura

9.00	Tamás Kálai	Recent Results in Chemistry and Biology of Pyrroline, Pyrrolidine and Piperidine Nitroxides
9.40	Maxim A. Voynov	*exo*-N,N-Disubstituted Amidines of Imidazoline Nitroxide Series: Synthesis and Characterization as pH Spin Probes
10.10	Jean-Pierre Finet	Synthesis and EPR Study of a Stable -Cyclodextrin-Bound Nitroxide
10.40	Igor A. Kirilyuk	New Nitroxide Spin Probes for Biomedical Research
11.10	**Coffee Break**	
11.30	Rui Tamura	Preparation and Properties of Paramagnetic All-Organic Liquid Crystals Containing a Chiral Five-Membered Cyclic Nitroxide Unit within the Rigid Core
12.10	Shin'ichi Nakatsuji	Organic Photo-Functional Spin Systems Based on Nitroxide Radicals
12.50	**Lunch**	
15.00	Eugene V. Tretyakov	A New Family of Nitronyl and Imino Nitroxides
15.30	Cecilia P. Sár	Synthesis of Spiro[pyrrolidine-2,2'-adamantane] Nitrones and Nitroxides
16.00	Laila Mosina	"EPR newsletter" (editor)
16.20	**Coffee Break**	
Poster Session		
19.00	**BANQUET**	

September, 22 THURSDAY

Chairs: Wolfgang Trommer / Yuri Tsvetkov

9.00	Paul Rey	In Memory of Andre Rassat
9.20	Lev M. Weiner	Nitroxyl Radicals as a Tool for Electron Transfer Studies
9.50	Frederick A. Villamena	Nitric Oxide Release from the Unimolecular Decomposition of the Superoxide Radical Anion Adduct of Cyclic Nitrones in Aqueous Medium
10.20	Hans Nohl	Mitochondria have a Nitrite Reductase Involved in Recycling Nitric Monoxide from Nitrite
10.50	**Coffee Break**	
11.10	Tatyana A. Konovalova	Application of Spin Trapping, High-Field and Pulsed EPR to Characterize Heme Protein Radicals
11.40	Alexander I. Kokorin	Intramolecular Spin Exchange in Nitroxide Biradicals
12.10	Andrey Kh. Vorobiev	Numerical Simulation of ESR Spectra of Nitroxides as a Method of Investigation.
12.40	Vladimir P. Timofeev	The Simulation EPR Spectra of Spin-Labeled Macromolecules. The Historical Abstract and Further Development.
13.10	**Lunch**	
Chairs: Harold Swartz / Valery Khramtsov		
15.00	Alex I. Smirnov	Local Electrostatics and pH of Lipid and Peptide Nanotubular Assemblies
15.40	Viktor Chechik	Probing Interactions at the Surface of Metal Nanoparticles with Nitroxide Spin Labels
16.10	Alexander M. Wasserman	ESR Spin Probe and Spin Label Study of Some New Polymer Systems
16.50	**Coffee Break**	
17.10	Elena G. Kovaleva	pH Spin Probe Characterization of Mesoporous Materials
17.40	Artem B. Ayupov	The Study of Acid Sites of Heterogeneous Catalysts by ESR Using Adsorption of Nitroxide Radicals

September, 23 FRIDAY

Chairs: Alex Smirnov / Victor Ovcharenko

9.00	Harold M. Swartz	Use of Nitroxides and Spin Traps for *in vivo* EPR
9.40	Gertz I. Likhtenshtein	Use of the Luminescence Quenching with Nitroxides as a Base for Novel Fluorescence Biosensing: Molecular Dynamics of Bioobject, Analysis of Nitric oxide, Superoxide and Antioxidants in a Picomole Scale
10.20	Valery V. Khramtsov	Biological Imaging and Spectroscopy of pH: Important Application for pH-Sensitive Nitroxides
10.50	**Coffee Break**	
11.10	Ronald P. Mason	Capturing Protein and DNA Radicals in Time and Space with Immuno-Spin Trapping
11.50	Beatrice Tuccio	A New Approach to the Determination of Rate Constants for the Superoxide Trapping by Nitrones
12.20	Andrey A. Bobko	Reversible Mechanism of Nitroxide reduction by ascorbate
12.50	**Lunch and excursions**	

Chairs: Lucedio Greci / Jan Raap

16.10	Elisabetta Damiani	Aromatic and Aliphatic Mono- and Bis-Nitroxides: a Study on their Radical Scavenging Abilities
16.40	Tomas L. Clanton	New insights into the mechanisms of antioxidant activity of the nitroxides and nitrones
17.10	**Coffee Break**	
17.30	Viktor I. Ovcharenko	Breathing crystals
18.00	Martin Baumgarten	Multifunctional high spin molecules based on nitronylnitroxides
18.30	Paul Rey	Polymorphism and new copper-nitroxide spin-transition species

September, 24 SATURDAY

Chairs: Alexander Wasserman / Klaus Möbius

9.00	Mikhail Yu. Zaremski	Nitroxides as agents of controlled synthesis of polymers
9.40	Dmitry Grishin	Nitroxyl radicals and its sources in controlled radical polymerization: experimental and quantum-chemical investigation
10.10	**Coffee Break**	
10.30	Elena Bagryanskaya	ESR, TR CIDNP, SEMF CIDNP and LF Photolysis Studies of Steric Effects on the Decay and Reformation Kinetics of Imidazolidine-Based Alkoxyamines
11.00	Peter Nesvadba	Beyond TEMPO: Synthesis of cyclic sterically highly hindered nitroxides and alkoxyamines
11.30	Howard J. Halpern	Progress in Imaging with Radiofrequency EPR
12.00	**Closing Ceremony**	

SpIN 2005 NOVOSIBIRSK

4th International Conference on Nitroxide Radicals: Synthesis, Properties and Implications of Nitroxides

SPIN-2005

September 20-24, 2005
Akademgorodok, Novosibirsk
Russia

Scientific Programme