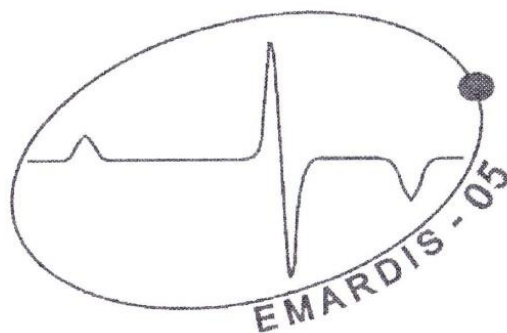


IX International Workshop
ELECTRON MAGNETIC RESONANCE
OF
DISORDERED SYSTEMS



June 8- 15, 2005
Sofia-Boyana, Bulgaria

PROGRAMME

Wednesday, June 8, 2005

17:00 - 18:00 Registration and accommodation.
20:00 - 21:30 Welcome party.

Thursday, June 9, 2005

9:00 - 9:40	D. Gourier	-Tracking down the first microorganisms by EPR.
9:40 - 10:20	M. Shiotani	-High-resolution ESR spectra of H atom-CH ₃ radical pairs in Ar matrix.
10:20 - 10:50	Coffee Pause	
10:50 - 11:30	Y. Sanakis	-Dual mode X-band EPR spectroscopy. Recent results.
11:30 - 12:10	G. Grampp	-ESR-Spectroscopy in ionic liquids: Electron transfer reactions of methylviologen.
15:00 - 15:40	H. Nakamura	-An electron spin resonance study of ginseng irradiated by gamma ray.
15:40 - 16:20	Y. Shimoyama	-Free radicals in irradiated wheat flour detected by electron spin resonance spectroscopy.
16:20 - 17:00	M. Ukai	-An ESR protocol based on relaxation phenomena in irradiated foods.
17:00 - 17:30	Coffee Pause	
17:30 - 18:30	Installing of the posters	

Friday, June 10, 2005

- 9:00 - 9:40 **A. Stasko** -Antioxidants as an attribute of food quality investigated by EPR spectroscopy.
- 9:40 - 10:00 **K. Jung** -Determination of the antioxidant capacity and reactivity of plants.
- 10:00 - 10:20 **B. Ciesielski** -The effects of prolonged exposure to daylight on stability of free radicals generated by ionizing radiation in L-alanine
- 10:20 - 10:50 **Coffee Pause**
- 10:50 - 11:30 **A. Alberti** -Dithioesters as spin traps and RAFT polymerisation chain transfer agents.
- 11:30 - 12:10 **A. Wasserman** -Possible mediators of the „living“ radical polymerisation.
- 15:00 - 15:40 **T. Herrling** -Measurements of free radicals/ROS in skin.
- 15:40 - 16:20 **K. Sakamoto** -Chain ordering of stratum corneum lipid investigated by an EPR spin probe method.
- 16:20 - 16:50 **Coffee Pause**
- 16:50 - 18:00 **Round-Table Discussion**
"EPR in the characterization of food quality"
Moderators: **A. Stasko, N. D. Yordanov**

Saturday, June 11, 2005

- 9:00 - 9:40 **E. Malinen** -LET effects following neutron irradiation of lithium formate EPR dosimeters.
- 9:40 - 10:20 **B. Ciesielski** -The influence of temperature on EPR signals in γ -irradiated tooth enamel and its effect on accuracy of dose reconstruction in 3rd international intercomparison on EPR tooth dosimetry.
- 10:20 - 10:50 **Coffee Pause**
- 10:50 - 11:30 **B. Rakvin** -Spin-lattice relaxation process of the first stable L-alanine radical at cryogenic temperatures.
- 11:30 - 12:10 **V. Tarasov** -Pseudo-equilibrium electron-nuclear spin states in spin correlated radical pairs.
- 14:00 - 18:00 **Visit of Sofia downtown**

Sunday, June 12, 2005

- 9:00 - 9:40 **A. Lund** -Automatic fittings to powder EPR spectra employing Feynman's theorem.
- 9:40 - 10:20 **H. Weihe** -Simulation of EPR spectra of simple spin systems
- 10:20 - 10:50 **Coffee Pause**
- 10:50 - 11:30 **Z. Sojka** -Calculation of EPR parameters of surface transition metal complexes using density functional theory.
- 11:30 - 12:10 **E. Pauwels** -Identification of radiation-induced radicals in crystalline sugars: conforming ab-initio calculations with magnetic resonance experiments.
- 15:00 - 18:00 **POSTERS DISCUSSIONS**

Monday, June 13, 2005

Free (excursion) day

Tuesday, June 14, 2005

9:00 - 9:40 **G. Vanhaelewyn** -Electron magnetic resonance of X-irradiated potassium salt of glucose-1-phosphate.
9:40 - 10:20 **Z. P.-Stuglik** -EPR and UV signals in gamma irradiated mono- and disaccharides and their dosimetric applications.
10:20 - 11:00 **K. Nakagawa** -Heavy-ion induced sucrose and L- α -alanine radicals studied by electron paramagnetic resonance.
11:00 - 11:30 **Coffee Pause**

19:00 - 22:00 **Farewell Dinner**

Wednesday, June 15, 2005

7:30 - 8:00 Breakfast

8:00 - 18:00 Departure

Chairmanship:

Time/day	Th, June 9	Fr, June 10	Sa, June 11	Su, June 12	Tu, June 14
9:00 - 10:20	A. Lund	T. Herling	B. Rakvin	K. Nakagawa	G. Grampp
10:50 - 12:10	M. Shiotani	D. Gourier	Z. Sojka	G. Vanhaelewyn	
15:00 - 17:00	Z. Stuglik	A. Alberti			

Breakfast - 8:15 - 9:00

Lunch - 12:30 - 13:30

Dinner - 18:30 - 19:30

Poster session:

M. M. Brasoveanu, N. M. Grecu, M. R. Nemptanu, R. Minea, V. V. Grecu - Free radicals in electron beam irradiated green coffee beans studied by electron paramagnetic resonance spectroscopy.

A. Dimitrova, N. D. Yordanov - EPR study on solvent effect in the ligand exchange reaction between bis(diethylselenocarbamate)copper(II) and bis(diethyldithiocarbamate)copper(II) or bis(octhyldithiocarbonato)copper(II).

E. R. Georgieva, L. Pardi, G. Jeschke, D. Gatteschi, L. Sorace, N. D. Yordanov - High-Field/High-Frequency EPR study on stable free radicals formed in sugar under gamma-irradiation.

D. Kattnig, B. Mladenova, G. Grampp - Solvent dynamic effects on the degenerate electron exchange kinetics of enzenecarbonitriles: A CW-EPR study.

E. Di Mauro, F. A. de Melo, M. T. Piccinato - Multi-frequency (X-band, Q-band and W-band) EPR study of the organic free radical in petroleum.

V. Gancheva, N. D. Yordanov, F. Callens, G. Vanhaelewyn, J. Raffi, S. Onori, E. Malinen, E. Sagstuen, S. Fabisiak, Z. P. -Stuglik - International intercomparison trial on „self-calibrated“ solid state/EPR dosimeters: Third stage.

V. Gancheva, N. D. Yordanov, Y. Karakirova - EPR investigation of the gamma radiation response and sensitivity of different types of glasses.

Z. Peimel-Stuglik, S. Fabisiak - Solid-state "self-calibrated" (SSSC) EPR dosimeters for the radiation processing dosimetry - advantages and limitations.

N. D. Yordanov, K. Aleksieva, A. Dimitrova, L. Georgieva, E. Tzvetkova - Multifrequency EPR study on some freeze-dried fruits before and after X-ray irradiation.

N. D. Yordanov, I. Angelchev - EPR dosimetric properties of bio-inorganic and synthetic materials

N. D. Yordanov, S. Fabisiak, O. Lagunov - Effect of the shape and size of dosimeters on the response of solid state/EPR dosimetry.

N. D. Yordanov, Y. Karakirova - EPR of gamma irradiated solid sucrose and UV of its solution. An attempt for calibration of solid state/EPR dosimetry.

N. D. Yordanov, R. Mladenova -EPR study of thermally generated free radicals in nuts.

N. D. Yordanov, Z. Pacheva, - Gamma-irradiated dry fruits. An example of a wide variety of long-time dependent EPR spectra.

(Posters will be displayed during the whole meeting)