

Program of Second Ukrainian-Polish Seminar "New Horizons of Liquid Crystal and Colloid Science" May 18-21, 2017

		May 18, Thursday
		Science Day in Institute of Physics (10.00-12.30)
13.00-		Opening
13.05		H. Sobczuk
		Director of Polish Academy of Sciences Scientific Center in Kyiv
13.05-	Chairman	M. Tykarska
13.35	H. Sobczuk	Military University of Technology, Warsaw, Poland
12.40		Miscibility studies and their use in LC mixture preparation
13.40- 14.10		A. Morozovska ¹ , E. Eliseev ^{1,2} , N. Morozovsky ¹ and S. Kalinin ^{1,3}
14.10		Institute of Physics, NASU, Kyiv, Ukraine
		² Institute for Problems of Materials Science, NASU, Kyiv, Ukraine
		³ Center for Nanophase Materials Science, Oak Ridge, Tennessee 37831, USA
		Ferroionic states in ferroelectric thin films
14.15-		L. Lisetski
14.45		Institute for Scintillation Materials of STC "Institute for Single Crystals"
		NASU, Kharkiv, Ukraine
		Dispersions of carbon nanotubes in nematic and cholesteric
		mixtures containing photosensitive components
14.50-		V. Reshetnyak
15.20		Taras Shevchenko National University of Kyiv, Ukraine
		Tuning surface plasmons in graphene with liquid crystal
15.20-		coffee break
15.40 15.40-	Chairman	I Dealer II Charles
16.10	Cnairman L. Lisetski	J. Parka, U. Chodorow
10.10	L. Liseiski	Military University of Technology, Warszawa, Poland
		Liquid Crystal Phase Shifter for THz radiation
16.15-		I. Pinkevych
16.45		Taras Shevchenko National University of Kyiv, Ukraine
		Two-beam energy exchange in hybrid photorefractive cholesteric
		cell with photosensitive molecules

Institute of Physics, Kyiv, Ukraine	16.50-	S. Chernyshuk and O.Tovkach
Colloidal particles as elastic triads in nematic liquid crystals		· · · · · · · · · · · · · · · · · · ·
S. Bugaychuk¹, G. Klimusheva¹, D. Zhulai¹, A. Iljin¹, V. Handziuk² ¹ Institute of Physics, National Academy of Sciences, Kiev, Ukraine ² Peter Grunberg Institute Bioelectronics (PGI-8), Juelich, Germany Nonlinear optical properties in new liquid crystal structures: nanocomposites of ionic LC with metal nanoparticles, and hybrid LC cells with photonic crystals May 19, Friday		
17.40 V. Handziuk²	ı	Colloidal particles as elastic triads in nematic liquid crystals
Institute of Physics, National Academy of Sciences, Kiev, Ukraine Peter Grunberg Institute Bioelectronics (PGI-8), Juelich, Germany Nonlinear optical properties in new liquid crystal structures: nanocomposites of ionic LC with metal nanoparticles, and hybrid LC cells with photonic crystals May 19, Friday May 19, Friday LC cells with photonic crystals May 19, Friday P. Kuka Near-Infrared P. Kuka Military University of Technology, Warszawa, Poland Near-Infrared Liquid Crystal Shutter for Breath analyser Application Application O. Yaroschuk Institute of Physics, Kyiv, Ukraine Liquid crystal photoalignment: from discovery to industrial life S. Nastyshyn¹, I. Bolesta¹, E. Lychkovskyy², P. Vankevych³, M. Yakovlev³, E Pansu¹, Yu. Nastyshyn³ 1 Ivan Franko National Medical University, of Pekarska st. Lviv, 79010, Ukraine 2 Lviv Danylo Halytsky National Army Academy, 32, Heroes of Maidan st., Lviv, Ukrai 4 Laboratoire de Physique des Solides, UMR 8502, Univ. Paris-Stud, 91405, Orsay, France Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch		
Nonlinear optical properties in new liquid crystal structures: nanocomposites of ionic LC with metal nanoparticles, and hybrid LC cells with photonic crystals May 19, Friday		
Nay 19, Friday The composition of the compositi	ı	² Peter Grunberg Institute Bioelectronics (PGI-8), Juelich, Germany
10.30- Chairman J. Parka Z. Raszewski, W. Piecek, J. Parka, Z. Jaroszewicz, E. Miszczyk, P. Kuka Military University of Technology, Warszawa, Poland Near-Infrared Liquid Crystal Shutter for Breath analyser Application O. Yaroschuk Institute of Physics, Kyiv, Ukraine		
11.05 11.06 11.07 11.08 11.09 11.09 11.05 11.05 11.35 11.40 11.40 12.10 11.40 12.10 12.10 13.15 13.20 14.20 15.21 15.35 13.05 15.25 15.35		
10.30- 11.00 11.00 11.00 11.01 11.02 11.05- 11.35 11.40 11.40- 12.10 12.10 12.10 12.15- 12.35- 13.05 12.35- 13.05 13.15 Chairman J. Parka Z. Raszewski, W. Piecek, J. Parka, Z. Jaroszewicz, E. Miszczyk, P. Kuka Military University of Technology, Warszawa, Poland Near-Infrared Liquid Crystal Shutter for Breath analyser Application O. Yaroschuk Institute of Physics, Kyiv, Ukraine Liquid crystal photoalignment: from discovery to industrial life S. Nastyshyn ¹ , I. Bolesta ¹ , E. Lychkovskyy ² , P. Vankevych ³ , M. Yakovlev ³ , E. Pansu ⁴ , Yu. Nastyshyn ³ 1 Ivan Franko National University of Lviv, 50 Dragomanov St, Lviv, 79010, Ukraine 3 Hetman Petro Sahaidachny National Army Academy, 32, Heroes of Maidan st, Lviv, Ukrai 4 Laboratoire de Physique des Solides, UMR 8502, Univ. Paris-Sud, 91405, Orsay, France Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director		May 10 Friday
11.00 J. Parka P. Kuka Military University of Technology, Warszawa, Poland Near-Infrared Liquid Crystal Shutter for Breath analyser Application O. Yaroschuk Institute of Physics, Kyiv, Ukraine Liquid crystal photoalignment: from discovery to industrial life S. Nastyshyn¹, I. Bolesta¹, E. Lychkovskyy², P. Vankevych³, M. Yakovlev³, E Pansu⁴, Yu. Nastyshyn³ 1 Ivan Franko National University of Lviv, 50 Dragomanov St, Lviv, 79005, Ukraine 2 Lviv Danylo Halytsky National Medical University, 69 Pekarska st, Lviv, V79010, Ukraine 3 Hetman Petro Sahaidachny National Army Academy, 32, Heroes of Maidan st, Lviv, Ukrain 4 Laboratoire de Physique des Solides, UMR 8502, Univ. Paris-Sud, 91405, Orsay, France Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch	ı	May 19, Friday
Near-Infrared Liquid Crystal Shutter for Breath analyser Application O. Yaroschuk		 · ·
Application	ı	Military University of Technology, Warszawa, Poland
11.05- 11.35 Co. Yaroschuk Institute of Physics, Kyiv, Ukraine		
Liquid crystal photoalignment: from discovery to industrial life S. Nastyshyn ¹ , I. Bolesta ¹ , E. Lychkovskyy ² , P. Vankevych ³ , M. Yakovlev ³ , E. Pansu ⁴ , Yu. Nastyshyn ³ 1 Ivan Franko National University of Lviv, 50 Dragomanov St, Lviv, 79005, Ukraine 2 Lviv Danylo Halytsky National Medical University, 69 Pekarska st., Lviv, 79010, Ukraine 3 Hetman Petro Sahaidachny National Army Academy, 32, Heroes of Maidan st., Lviv, Ukrain 4 Laboratoire de Physique des Solides, UMR 8502, Univ. Paris-Sud, 91405, Orsay, France Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch		
S. Nastyshyn ¹ , I. Bolesta ¹ , E. Lychkovskyy ² , P. Vankevych ³ , M. Yakovlev ³ , E. Pansu ⁴ , Yu. Nastyshyn ³ 1 Ivan Franko National University of Lviv, 50 Dragomanov St, Lviv, 79005, Ukraine 2 Lviv Danylo Halytsky National Medical University, 69 Pekarska st., Lviv, 79010, Ukraine 3 Hetman Petro Sahaidachny National Army Academy, 32, Heroes of Maidan st., Lviv, Ukrain 4 Laboratoire de Physique des Solides, UMR 8502, Univ. Paris-Sud, 91405, Orsay, France Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch	11.35	Institute of Physics, Kyiv, Ukraine
12.15- 12.30 1 Ivan Franko National University of Lviv, 50 Dragomanov St, Lviv, 79005, Ukraine 2 Lviv Danylo Halytsky National Medical University, 69 Pekarska st., Lviv, 79010, Ukraine 3 Hetman Petro Sahaidachny National Army Academy, 32, Heroes of Maidan st., Lviv, Ukraine 4 Laboratoire de Physique des Solides, UMR 8502, Univ. Paris-Sud, 91405, Orsay, France Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties 12.35- 13.05 V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch		S. Nastyshyn ¹ , I. Bolesta ¹ , E. Lychkovskyy ² , P. Vankevych ³ , M. Yakovlev ³ , B.
1 Ivan Franko National University of Lviv, 50 Dragomanov St, Lviv, 79005, Ukraine 2 Lviv Danylo Halytsky National Medical University, 69 Pekarska st., Lviv, 79010, Ukraine 3 Hetman Petro Sahaidachny National Army Academy, 32, Heroes of Maidan st., Lviv, Ukraine 4 Laboratoire de Physique des Solides, UMR 8502, Univ. Paris-Sud, 91405, Orsay, France Ray tracing matrix approach for refractive index mismatch aberrations in confocal microscopy K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch	12.10	, , , , , , , , , , , , , , , , , , , ,
12.15- 12.30 R. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties 12.35- 13.05 V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director 13.15- Lunch		1 Ivan Franko National University of Lviv, 50 Dragomanov St, Lviv, 79005, Ukraine 2 Lviv Danylo Halytsky National Medical University, 69 Pekarska st., Lviv, 79010, Ukraine 3 Hetman Petro Sahaidachny National Army Academy, 32, Heroes of Maidan st., Lviv, Ukraine
12.15- 12.30 K. Sielezin, J. Parka Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch	i	
12.30 Military University of Technology, Warszawa, Poland 03 - 10.0 THz Spectra for Chosen Liquid Crystal Molecules - Simulation and Physical Properties 12.35- 13.05 V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch	12.15-	
12.35- 13.05 V. Pergamenshchik Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch		·
13.05 Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch		
Institute of Physics, NASU, Kyiv, Ukraine Aggregation of dye molecules in a NLC and strong aggregate- induced torque on the nematic director Lunch	12.35-	V. Pergamenshchik
induced torque on the nematic director Lunch	13.05	
13.15- Lunch		
TT.TJ		
15.00-		
Tour of the laboratories of Institute of Physics	17.30	Tour of the laboratories of Institute of Physics