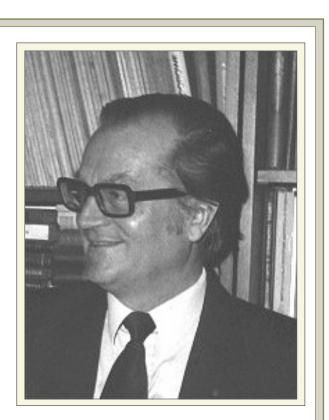


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Prof. Stanisław Kielich (10.XI.1925 - 15.X.1993)

The Symposium is dedicated to the memory of Prof. Stanisław Kielich.

Stanisław Kielich is considered to be one of the founders and leading experts in nonlinear optics, with forty years of continuous research work in the subject. He authored more than three hundred scientific papers. He had more than twenty PhD students. Four of his students are professors now. He was a member of the Polish Accademy of Sciences. Among other distinctions he was awarded the Marian Smoluchowski Medal (1983) and twice the Cross of Merit (1976,1983).

The participants are invited to the performance "Men in glasses" by students and alumni of the Stanisław Kielich Junior-High School in Borowo.



The Third Poznań Syposium on Quantum Engineering, Information, and Nonlinear Optics

15.X - 17.X.2013



₩ SYMPOSIUM VENUE

Adam Mickiewicz University in Poznań

Collegium Physicum ul. Umultowska 85 61-614, Poznań, Poland



Designed by K. Bartkiewicz

Nonlinear Optics (15 Oct 2013)				
8:30	MORNING COFFEE			
9:00	N. Kielich, R. Tanaś, and T. Bancewicz (Poznań)	Stanisław Kielich - a few words about his life		
9:30	T. Hilczer (Poznań)	The early days of physics of dielectrics in Poznań		
10:00	K. Gubbins (Raleigh)	The theory of polar liquids and their mixtures: a historical review		
10:45	G. Maroulis (Patras)	Quantifying the performance of quantum chemistry methods		
11:15	D. Kasprowicz (Poznań)	Opportunities for Bi ₂ ZnOB ₂ O ₆ single crystals: Second and third order nonlinear optical applications		
11:45	ENTERTAINMENT*			
12:30	LUNCH AND COFFEE			
13:30	G. Boudebs (Angers)	Optical nonlinear characterization using imaging technique in a 4f-Z-scan system		
14:00	I. Lyubchanskii (Donetsk)	Nonlinear magneto-optical ellipsometry		
14:30	J. Warczewski (Katowice)	Spin glass state and other magnetic structures with their symmetries in terms of the Fibre Bundle Approach		
15:00	JL. Godet (Angers)	A short historical recall about the story of the concept of refractive index: From the Antique to the 19th century		
15:30	COFFEE BREAK			
16:00	M. Makowska- Janusik (Częstochowa)	Macroscopic optical properties of composite materials - computational approach		
16:30	A. Zawadzka (Toruń)	Nonlinear optical properties of organometallic thin films		
17:00	T. Lulek (Poznań)	Nonlinear magnetooptics, symmetry breakings and ascents, and the magnetic translation groups		
18:00	WELCOME PARTY			

* Performance in English on "Men in glasses" by students and alumni of the Stanisław Kielich Junior-High School in Borowo directed, stage designed, and supervised by Urszula Grabowska, Hanna Korpik, Ewa Wegner, and Piotr Wegner.

Quantum Information / Engineering (16 Oct 2013)					
8:30	MORNING COFFEE				
9:00	R. Horodecki (Gdańsk)	Objectivity from first principles - new role of broadcasting structure			
9:30	M. Żukowski (Gdańsk)	Generalized Hardy correlations and quantum communication problems			
10:00	D.Chruściński (Toruń)	Non-Markovian quantum dynamics			
10:30	A. Grudka (Poznań)	Universal scheme for violation of local realism from quantum advantage in one-way communication complexity			
11:00	COFFEE BREAK / POSTER SESSION				
11:30	W. Vogel (Rostock)	Unified representation of nonclassicality and entanglement			
12:00	M. Kuś (Warsaw)	Engineering SU(3) models: trapped ions, quantum chaos, classical limit(s)			
12:30	P. Horodecki (Gdańsk)	Device independent arbitrary weak randomness amplification with noise tolerance			
13:00	K. Życzkowski (Kraków)	Measuring the degree of quantum entanglement			
13:30	LUNCH AND COFFEE				
14:30	Guided tour to NANOBIOMEDICAL CENTRE				
15:30	J. Mostowski (Warsaw)	Time crystals			
16:00	T. Sowiński (Warsaw)	Universality of extended Bose-Hubbard models with local three-body interactions			
16:30	T. Polak (Poznań)	Gauge dependent time of flight patterns in Abelian synthetic magnetic fields			
17:00	J. Martinek (Poznań)	Cooper pair splitting as a source of entangled electrons			
17:30	COFFEE / POSTER SESSION				

	Chairperson			
Session	15 Oct 2013	16 Oct 2013	17 Oct 2013	
I	Ryszard Tanaś	Werner Vogel	Qiongyi He	
П	Keith Gubbins	Ryszard Horodecki	Jan Perina Jr.	
III	George Maroulis	Alexandre Zagoskin	Zbigniew Ficek	

Quantum Engineering (17 Oct 2013)				
8:30	MORNING COFFEE			
9:00	A. Zagoskin (Loughborough)	Quantum metamaterials: concept and applications		
9:30	I. Weymann (Poznań)	The Kondo effect in quantum dots		
10:00	P. Głowacki (Poznań)	Spectroscopic investigations of the atomic structure in support of quantum engineering and metrology		
10:30	M. Krawczyk (Poznań)	Review and prospects of magnonic crystals		
11:00	COFFEE BREAK			
11:30	Z. Ficek (Riyadh)	Role of the first-order coherence in entanglement between Gaussian modes		
12:00	Q. He (Beijing)	Einstein-Podolsky-Rosen paradox and quantum steering in pulsed optomechanic		
12:30	K. Banaszek (Warsaw)	Which-way experiment with an internal degree of freedom		
13:00	M. Czachor (Gdańsk)	Are EPR correlations sensitive to the form of field quantization?		
13:30	LUNCH AND COFFEE			
14:30	J. Peřina Jr. (Olomouc)	Sub-Poissonian-light generation by postselection from twin beams		
15:00	J. Soubusta (Olomouc)	Recent results of the experimental-optics group in Olomouc		
15:30	A. Černoch (Olomouc)	Linear-optical qubit amplifier		
16:00	K. Lemr (Olomouc)	Linear-optical quantum routers		
16:30	COFFEE			

The book of abstracts is available at our website:

http://zon8.physd.amu.edu.pl/~miran/workshop3.html

Main organizers: R. Tanaś, T. Bancewicz, A. Miranowicz

Organizing Committee: K. Bartkiewicz, G. Chimczak, W. Głaz, K. Grygiel, B. Horst, A. Kowalewska-Kudłaszyk, W. Leoński, and M. Paprzycka