Monday, July 9 8:30-10:00

Welcome to the Conference (15 minutes)

Session 1 "Applications I"

   Dana Anderson and Valeria Damiao

2. Whole-field coherence-gated 3-D imaging.

3. High frame rate joint Fourier transform correlation by pulsed interband photorefraction in Sn₂P₂S₆.
   R. Ryf, G. Montemezzani, P. Günter, A. A. Grabar and I. M. Stoyka

4. Holographic camera with BSO applied to microgravity fluid experiment onboard ISS.
   Marc P. Georges, Luc Joannes, Cédric Thizy, Frank Dubois, Olivier Dupont, Philippe C. Lemaire, and Jean-Claude Legros

Monday, July 9 10:30-12:00

Session 2 "Optical Storage I"

5. (Invited) The role of Mn in photorefractive LiNbO₃.
   Yunping Yang, Dirk Berben, Ali Adibi, Karsten Buse and Demetri Psaltis

6. Rapid Grating Compensation in Iron-doped Paraelectric KLTN.
   Mark Ivker and Aharon Agranat

7. The structure of KLTN and the nature of its ferroelectric transition, as determined by neutron diffraction studies.
   R. Gatt, G. Perpelipsa, P. Russian, M. Ben-Moshe and A. J. Agranat


**Monday, July 9 2:00-3:00**

**Session 3 "Dynamics"**


12. Detection of resonance space-charge wave peaks for holes and electrons in photorefractive crystals. Ivan de Oliveira and Jaime Frejlich

**Monday, July 9 3:30-4:45**

**Session 4 "Adaptive Interferometry"**


15. Multiple exposure holographic interferometry with sillenite crystals applied to vibration measurements. Marc P. Georges, Cédric Thizy, Philippe C. Lemaire, Gilles Pauliat, and Gérald Roosen


Monday, July 9  8:00-10:00

Poster Session 1

Tuesday, July 10 8:30-10:00

Session 5 "Photorefractive Organics"

18. (Invited) Evidence for mechanical properties ruling dielectric and electro-optical properties in various low Tg photorefractive doped polymers. J.C. Ribierre, G. Cheval, L. Mager, A. Fort, S. Méry, and J.F. Nicoud


21. Infrared-sensitive photorefractive polymer composites and fully functionalized polymethacrylates with high gain and dynamic range. Eric Hendrickx, David Van Steenwinckel, Mark Schaerlaekens, Christiaan Engels, Elke Gubbelmans, Celest Samyn and Andre Persoons
R. Ramos Garcia, V. Camacho Pernos, S. Stepanov, S. Mansurova, R. Bittner, and K. Meerholz

**Tuesday, July 10 10:30-12:00**

**Session 6 "Optical Storage II"**

Osamu Matoba, Xiaodi Tan, Tsutomu Shimura, Kazuo Kuroda, and Bahram Javidi

24. Holographic approach to store binary data densely beyond the Rayleigh limit using near-field scanning optical microscopy.
Kyoung-Youm Kim and Byoungho Lee

25. Mechanisms of dark decay of holograms in lithium niobate crystals.
Yunping Yang, Ingo Nee, Karsten Buse, and Demetri Psaltis

M. Wesner, C. Herden, and D. Kip

27. Optical storage of information via refreshing by inverse seeding in a photorefractive \( \text{Ba}_{0.77}\text{Ca}_{0.23}\text{TiO}_3 \) crystal (BCT).
V. Matusevich, A. Kiessling, and R. Kowarschik

28. Origin of the enhancement of the resistance against the optical damage in Mg-doped stoichiometric Lithium niobate crystals.
Guangyin Zhang and Jingjun Xu

**Tuesday, July 10 2:00-3:00**

**Session 7 "Applications II"**

29. Optical Carrier Suppression Using Two-Beam Coupling in Photorefractive Barium Titanate.
Dana Anderson, Valeria Damiao, Stefania Romisch, Amy Sullivan, Darko Popovic, and Zoya Popovic

30. Photorefractive X-ray imaging.
Dirk Berben, Birk Andreas, and K. Buse
31. An optically smart antenna array.
Dana Anderson, Edeline Fotheringham, Stefania Romisch, Paul Smith, and Zoya Popovic

32. Laser diode made single-mode by an intracavity photorefractive filter.
Sébastien Maerten, Nicolas Dubreuil, Gilles Pauliat, Jean-Michel Jonathan, Gérald Roosen, and Daniel Rytz

Tuesday, July 10  8:00-10:00
Poster Session 2

Wednesday, July 11 8:30-10:00
Session 8 "Photorefractive Quantum Wells"

33. (Invited) Photorefractive quantum well p-i-n diode: Design for high resolution and broad bandwidth.

34. Photo-EMF effect under the influence of nonlinear hot-electron transport in photorefractive quantum wells diodes.

35. Photorefractive multiple quantum well device at 1064 nm and its application to adaptive vibration measurement.

36. Simultaneous measurement of absorption and phase grating in GaAs photorefractive quantum wells.

37. Application of Photorefractive Multiple Quantum Wells to Biological Imaging.
P. Yu, D. D. Nolte, and J. J. Turek
Wednesday, July 11 10:30-12:00

Session 9 "Spatial Effects"

38. Ultrafast electrooptic effect: from photorefractive Gunn domain to terahertz frequency space charge waves.
   L. Subacius and K. Jarasiunas

39. Spatial (2+1)D higher-order vector solitons in a photorefractive medium.
   C. Weilnau, M. Ahles, C. Denz and W. Krolikowski

40. Effect of a photovoltaic field on the Bragg condition in LiNbO₃,
   V. M. Petrov, C. Denz, A. V. Chamray, M. P. Petrov, and T. Tschudi

41. Novel geometrical model of photorefractive beam-fanning in barium titanate used to stabilize Double Phase Conjugation.
   C. Mailhan, N. Fressengeas, M. Goetz, and G. Kugel

42. Photorefractive effect in cubic crystal under a revolving electric field.

43. Analysis of Single Beam Propagation in Photorefractive Media under an AC field.
   G.F. Calvo, M. Carrascosa, F. Agulló-López, and B. Sturman

Wednesday, July 11 2:00-3:00

Session 10 "Laser Applications"

44. (Invited) Stabilisation of a 1.55-µm extended-cavity semiconductor laser by intra-cavity dynamic holography.
   Antoine Godard, Gilles Pauliat, Gerald Roosen, Philippe Graindorge, and Philippe Martin

45. (Invited) Photorefractive spatial cleanup of beams emitted by solid state lasers and large core multimode Yb doped fibers.
   A. Brignon, J.-P. Huignard, and E. Lallier
Wednesday, July 11 3:30-4:30

Session 11 "Properties of Crystal PRCs"

R. S. Cudney and M. Kaczmarek

47. UV photorefractive effect in Na2O doped lithium niobate crystals.
Haijun Qiao, Jingjun Xu and Guangyin Zhang

48. Optical properties of nonstoichiometric sillenite-type crystals.

49. Orientation dependence of photorefractive gain in BCT :determination of electrooptic coefficients.
Sylvie Bernhardt, Lauren Mize, Philippe Delaye, Ortwin Schirmer, and Gérald Roosen

Closing Remarks

Wednesday, July 11  Evening Banquet and Awards