

INVITED TALKS

1. Oleg Kolosov, **Sensors in the High Throughput Materials Discovery**, *Gordon Research Conference - Combinatorial & High Throughput Materials Science*, Rancho Santa Barbara, Buellton, CA, USA, January 25-30, 2004
2. Oleg Kolosov, **High speed materials properties sensing. Synergy between combinatorial discovery and process control**, *Polyolefins 2004*, Houston, TX, USA, February, 2004.
3. Oleg Kolosov, **Miniaturization and Small Scale Properties Sensors in the High Throughput Materials Discovery**, *Knowledge Foundation, COMBI - 6th Annual Combinatorial Approaches for New Materials Discovery*, Arlington, VA, USA, May, 2004.
4. Oleg Kolosov, Bryan Huey, and Oliver Wright, **Heterodyne Force Microscopies - Viewing materials physical properties on ns time and nm length scale**, *Acoustic Imaging 27*, Saarbrucken, Germany, March, 2003
5. Oleg Kolosov, **Tools for New Material Discovery**, *CPAC Summer Institute*, University of Washington, Seattle, USA, July 2002.
6. O. V. Kolosov, **Combinatorial discovery of new materials**, *Department of Materials: Colloquia*, University of Oxford, Oxford, UK, 22 June, 2000.
7. Oleg V. Kolosov, **High Throughput Polymer Characterization - Combinatorial Discovery vs. Rapid Process Control**, *CPAC Summer Institute*, U Washington, Seattle, USA, July 2001
8. O. V. Kolosov and G. A. D. Briggs, **Ultrasonic Force Microscopies – merging ultrasound and SPM to explore nanometre scale mechanics on the nanosecond time scale**, *Scanning Tunneling Microscopy, STM '99*, Seoul, Korea, July 1999.
9. O. V. Kolosov, **Ultrasonic force microscopy – tapping into materials properties with nanometre scale spatial and nanosecond time resolution**, *Chevron Lecture Series*, Department of Chemical Engineering, University of Washington, Seattle, USA, March, 29, 1999.
10. O. V. Kolosov, F. Dinelli, H. Yanaka, Y. Tsukahara and G.A.D. Briggs, **Ultrasonic nano-NDT by Ultrasonic Force Microscopy, Observing inclusions, interfaces and delaminations in composite materials with the near-atomic resolution**, *Ultrasonic International '99* and World Congress on Ultrasonics, 1999, Copengagen, Denmark.
11. OFS Lefeuvre OV Kolosov, GAD Briggs, and Y Tsukahara, **Elastic measurements of layered nanocomposite materials by Brillouin spectroscopy**, *Ultrasonic International '99* and World Congress on Ultrasonics, 1999, Copenhagen, Denmark .
12. O. B. Wright and O. V. Kolosov, **Nanoscale ultrasonic and photoacoustic probing of elastic and thermal properties with atomic force microscopy at MHz frequencies**, *Ultrasonic International '99* and World Congress on Ultrasonics, 1999, Copengagen, Denmark.
13. O. Kolosov and A. Briggs, **Acoustic Near-Field Microscopy**, *W E - Heraeus Ferienkurs, School on Non-conventional High Resolution Imaging*, September 1998, Univ. of Leipzig, Germany.
14. O. Kolosov and A. Briggs, **From Ultrasonic Force to Heterodyne Force Microscopy. Advances of non-linear ultrasonics in the Scanned Force Microscopy**, *Ultrasonics International'97*, Delft, Holland, 1-4 July, 1997.

15. A. Briggs and O. Kolosov, **Anisotropic Elastic Characterisation of surfaces from 2 MHz to 10 GHz**, *Ultrasonics International'97*, Delft, Holland, 1-4 July, 1997.
16. O. Kolosov, **Ultrasonic Force Microscopy for Materials Studies. Challenging Diffraction Limits of Resolution**, *Butsuri Gakkai – Japanese Society of Applied Physics*, April 21, 1998, University of Hokkaido, Japan.
17. O. Kolosov, **Towards measurement of mechanical properties with nanoscale resolution**, *Colloquia of Materials Department*, April 17, 1998, Sendai University, Japan.
18. O. Kolosov, **Ultrasonic Atomic Force Microscopy**, *Colloquia of the Department of Applied Physics, University of Hokkaido*, Sapporo, December, 1996.
19. O. Kolosov, **Nanoscale writing and erasing of ferroelectric domains using Atomic Force Microscopy**, at the *workshop on Near Field Microscopy and Future Trends*, Montpellier, 1995.
20. O. Kolosov, **Nanoscale imaging of dynamic mechanical properties by ultrasonic force microscopy**, *Acoustic Imaging 22*, Florence, Italy, 1995.
21. O. Kolosov and K. Yamanaka, **Adjustable Acoustic Knife Edge for Anisotropic and Dark Field Acoustic Imaging**, *6th Symp. on U/s Micro Spectroscopy*, Tsuchiura, Japan, March 23, 1993, Japan.

CONFERENCE ORGANIZATION

- **Gordon Conference on Combinatorial Materials Science**, Session Chair, Oxford, UK, 2005.
- **MRS fall meeting**, Session Organizer, Boston, USA, 2003.
- **Acoustic Imaging 27**, Session Chair, Saarbrucken, Germany, 2003
- **First Gordon Conference on Combinatorial Materials Science**, Session Chair, NH, USA, 2002
- **European Workshop on Surface Brillouin Scattering**, Chair and co-organizer, Oxford, UK, 1997.
- **22nd International Symp. on Acoustic Imaging**, Session Chairman, Florence, Italy, 1995
- **1-st International Symposium on Microscope Photometry and Acoustic Microscopy in Science**, Organization Committee member, Moscow, USSR, 1985

MEDIA FEATURES

1. **Dr. Oleg Kolosov of Symyx Technologies discussed combinatorial chemistry**, KALX Berkeley University FM Radio, <http://www.ocf.berkeley.edu/~clgroks/1202to1002.html>, October, 2002.
2. Laurie Ann Toupin, Associate Editor, **Material scientists get a 'springy' look at composites**, in Late developments that shape engineering, **Design News**, Technology Bulletin Jan 18, 1999 v54 i2 p 16(1).
3. Measurement Award, **Oxford University Gazette**, No. 4531 Thursday 2 December 1999 Vol. 130.
4. Otis Port, **Ultrasonic Force Microscope**, Developments to Watch, **Business Week**, Jan 1999 p.97.
5. Giovanni Valerio, Nanometri Senza Veli, **il Mondo**, 29 January, 1999 (in Italian).
6. Meher Antia, **Feeling the Tiniest Stresses**, Story of the day, **Science online**, 10 August 1998 7:00 PM, © 1998 by the American Association for the Advancement of Science, <http://www.sciencemag.org/>
7. B. Bellew, ed., **Ultrasonic Force Microscope**, **Isis Innovation News**, Oxford, UK, Ed. 23, 1997.
8. F.S. Myers, **Ultrasonic AFM Looks Below Surface**, **MRS Bulletin**, Feature research/ researchers, v 19, No.1, January 1994, p.8.
9. **Atomic scope sees below surface**, **Nikkei Simbun**, Japan, 19 May 1993 (in Japanese).

10. Trends in MITI research, NHK satellite broadcast – “Japan today”, 12:30 AM, June, 1992
(bilingual – Japanese/English).