

## Presentations 2002

<b>Date</b>	<b>Place</b>	<b>Type of talk</b>	<b>Speaker</b>	<b>Title</b>
1/4	Indian Institute of Technology- Bombay, Mumbai, India	Talk	Ananth Chikkatur	The Bose-Einstein Condensate: A dilute gas superfluid
1/7	Tata Institute of Fundamental Research, Mumbai, India	Talk	Ananth Chikkatur	The Bose-Einstein Condensate: A dilute gas superfluid
1/21	Limerick, Ireland	Popular talk, IOP lecture series	WK	The Bose-Einstein Condensate: A Superfluid Gas of Coherent Atoms
1/23	Belfast, Ireland	Popular talk, IOP lecture series	WK	The Bose-Einstein Condensate: A Superfluid Gas of Coherent Atoms
1/24	Dublin, Ireland	Popular talk, IOP lecture series	WK	The Bose-Einstein Condensate: A Superfluid Gas of Coherent Atoms
2/5	Toronto, Canada	Colloquium, York University	WK	
2/16	Boston	Topical Lecture, AAAS Annual Meeting	WK	Bose-Einstein Condensates: Matter Made of Matter Waves
2/16	Boston	Invited talk, Symposium “Experiments with Ultracold Atoms”, AAAS Annual Meeting	WK	Bose-Einstein Condensation: Quantum Mechanics Near Zero Temperature
2/25	Mumbai, India	Talk at the Tata Institute of Fundamental Research	S. Gupta	Atom Optics with a Bose- Einstein Condensate
3/1	Cambridge	Meeting of the MIT Corporation	WK	Bose-Einstein condensates - the coldest matter in the universe
3/4-/8	Osnabrück, Germany	Spring Meeting of the German	Kai Dieckmann	Contrast Interferometry with

3/4-8	Osnabrück, Germany	Physical Society Spring Meeting of the German Physical Society	Kai Dieckmann	Bose-Einstein Condensates Two-Species Mixture of Quantum Degenerate Bose and Fermi Gases
3/19	Indianapolis	Invited talk, APS March meeting	WK	The Bose-Einstein condensate: A superfluid gas of coherent atoms
4/10	Cambridge	MIT Research Directors Conference	WK	Bose-Einstein condensates - the coldest matter in the universe
4/19 4/26	Albany, New York Yale University, New Haven	Colloquium Seminar	WK Kai Dieckmann	Recent Results with Ultracold Bosons and Fermions
5/1	Patuxet River Naval Air Station, Maryland	ONR Program Review	WK	Bose-Einstein Condensation
5/10-12	Dana Point, CA	NASA/JPL Workshop on Fundamental Physics in Space	K. Dieckmann	Towards Testing Fundamental Physics with Ultracold Bosons and Fermions
5/22	Long Beach	Plenary talk, CLEO/QELS	WK	Bose-Einstein condensates – superfluid gases
5/23	Los Angeles	UCLA Colloquium	WK	Gaseous Bose-Einstein condensates -a nanokelvin laboratory for quantum physics
May May 5/19-5/24	Georgia Tech Berkeley Long Beach	AMO seminar AMO seminar Contributed Talk, CLEO/QELS	A. Chikkatur A. Chikkatur J.M. Vogels	Experimental observation of the Bogoliubov transformation for a Bose-Einstein condensed gas
5/19-5/24	Long Beach	Contributed Talk, CLEO/QELS	A. Chikkatur	Transport of Bose-Einstein Condensates Using Optical Tweezers

5/19-5/24	Long Beach	Postdeadline Talk, CLEO/QELS	A. Leanhardt	Topological vortex formation in a Bose-Einstein condensate
5/29-6/1	Williamsburg	Plenary talk, DAMOP	WK	Gaseous Bose-Einstein condensates -a nanokelvin laboratory for quantum physics
5/29-6/1	Williamsburg	Contributed talk, DAMOP		Measuring the Photon Recoil Frequency using Interferometry with Bose-Einstein Condensates
5/29-6/1	Williamsburg	Contributed talk, DAMOP	Dave Kielpinski	Waveguide physics using Bose-Einstein condensates
5/29-6/1	Williamsburg	Contributed talk, DAMOP	Y. Shin	Transport of Bose-Einstein Condensates with Optical Tweezers
5/29-6/1	Williamsburg	Contributed talk, DAMOP	D. Schneble	Superradiance in a Bose-Einstein condensate in the short-pulse regime
5/29-6/1	Williamsburg	Contributed talk, DAMOP	J. Vogels	Collisional matter wave amplification and squeezing
5/29-6/1	Williamsburg	Contributed talk, DAMOP	C.A. Stan	Two-Species Mixture of Quantum Degenerate Fermi and Bose Gases
5/29-6/1	Williamsburg	Poster, DAMOP	G. Campbell	High-performance Apparatus for Bose-Einstein Condensation of Rubidium Atoms
6/23 – 6/26	Gargnano del Garda, Italy	Invited talk at workshop on Recoil Induced Effects and BEC	S. Gupta	Contrast Interferometry with Bose-Einstein Condensates to Measure $\hbar/m$ and $\alpha$
7/17	Trento, Italy	Invited talk, Workshop on quantum-degenerate gases	WK	Recent work on quantum-degenerate alkali gases at MIT
7/15 –	Trento, Italy	Poster presentation, Workshop on	A.P. Chikkatur	Exploring Physics Using

7/18		quantum-degenerate gases			Transported Bose-Einstein Condensates
7/18	Trento, Italy	Public talk		WK	
7/22-26	Cambridge	ICAP AMO Summer School, four lectures		WK	Optical Bloch equations, spectrum of radiated light. Dressed atom picture, dipole forces. Optical Molasses and beam slowing. Bose-Einstein Condensation. The Bose-Einstein Condensate - a Superfluid Gas of Coherent Atoms
7/28	Cambridge	Plenary talk, ICAP		WK	
7/28-8/2	Cambridge	ICAP Poster presentation		A.E. Leanhardt	Bose-Einstein condensates on a microchip
7/28-8/2	Cambridge	ICAP Poster presentation		J. Vogels K. Xu	Generation of macroscopic pair-correlated atomic beams by four-wave mixing in Bose-Einstein condensates
7/28-8/2	Cambridge	ICAP Poster presentation		Z. Hadzibabic	Two-species Mixture of Quantum Bose and Fermi Gases
7/28-8/2	Cambridge	ICAP Poster presentation		J. Harris	Progress towards buffer-gas cooling and magnetic trapping of sodium
7/28-8/2	Cambridge	ICAP Poster presentation		S. Gupta	Contrast Interferometry with Bose-Einstein Condensates to Measure $\hbar/m$ and $\alpha$
7/28-8/2	Cambridge	ICAP Poster presentation		A.P. Chikkatur	A continuous Source of Bose-Einstein Condensed Atoms
7/28-8/2	Cambridge	ICAP Poster presentation		M. Boyd E. Streed	High-Performance Apparatus for Making Bose-Einstein

9/19	LANL	Quantum Research Institute Symposium	Jamil Abo-Shaeer	Condensates of Rubidium Vortex lattices in Bose-Einstein condensates
10/2	Lunteren, The Netherlands	Invited talk, 7th Workshop on Atom Optics and Interferometry	WK	A continuous BEC source and other recent work on quantum degenerate alkali gases at MIT
9/10	Heidelberg	Internationales Wissenschaftsforum	C. Stan	Interactions in Ultracold Atoms: From Atoms to Molecules
9/28 – 10/02	Lunteren, The Netherlands	Poster presentation, 7th Workshop on Atom Optics and Interferometry	K. Dieckmann	Contrast Interferometry with Bose-Einstein Condensates to Measure $h/m$ and $\alpha$
9/28 – 10/02	Lunteren, The Netherlands	Poster presentation, 7th Workshop on Atom Optics and Interferometry	K. Dieckmann	Decay of an Ultracold Fermionic Lithium Gas near a Feshbach Resonance
9/28 – 10/02	Lunteren, The Netherlands	Poster presentation, 7th Workshop on Atom Optics and Interferometry	D. Kielpinski	Propagation of Bose-Einstein Condensates in a Magnetic Waveguide
9/29-10/3	Orlando, Florida	OSA Meeting, Contributed talk		Quantum degenerate mixture of Bose and Fermi atomic gases
9/29-10/3	Orlando, Florida	OSA Meeting, Contributed talk	A. Leanhardt	Science with Bose-Einstein condensates in an auxiliary vacuum chamber
9/29-10/3	Orlando, Florida	OSA Meeting, Contributed talk	Jit Kee Chin	Generation of macroscopic pair-correlated atomic beams by four-wave mixing in Bose-Einstein condensate
9/29-10/3	Orlando, Florida	OSA Meeting, Contributed talk		Investigation of Feshbach resonance in a degenerate fermionic gas
9/29-10/3	Orlando, Florida	OSA Meeting, Contributed talk	M. Boyd	Superradiance in a Bose-Einstein condensate in the

10/3	AMOLF, Amsterdam	Seminar	D. Kielpinski	short-pulse regime Bose-Einstein Condensation in Microfabricated Waveguides
10/5/	Cambridge	Talk, MIT Alumni Conference	WK	The coldest matter in the universe
10/7	University of Munich	Seminar	Kai Dieckmann	Towards Fundamental Tests with Ultracold Bosons and Fermions
10/8	ENS, Paris	Seminar	D. Kielpinski	Bose-Einstein Condensation in Microfabricated Waveguides
10/14	Stony Brook	Atomic Physics Seminar	Jamil Abo-Shaeer	Vortex lattices in Bose-Einstein condensates
10/17	Boston University	Talk, French-American Innovation Day	WK	Ultracold atoms in fundamental and applied research
10/18	Cambridge	Talk, MIT Family Weekend	WK	The coldest matter in the universe
10/22	Mannheim, Germany	Talk, Rotary Club Mannheim- Friedrichsburg	WK	Auf Einsteins Spuren in den USA- Die kälteste Materie im Universum
10/23	Frankfurt, Germany	Keynote talk, Entrepreneur des Jahres	WK	Auf Einsteins Spuren in den USA- Die kälteste Materie im Universum
10/23	Harvard	Joint Atomic Physics Seminar	D. Kielpinski	Bose-Einstein Condensation in Microfabricated Waveguides
10/30	Berkeley, California	Seminar at the University of California, Berkeley	S. Gupta	Experiments with Degenerate Alkali Gases: BEC Interferometry and Fermi-Bose Mixture
11/6	Cambridge	Talk, MIT Physics Alumni Breakfast	WK	The coldest matter in the universe
11/22	Boulder	MURI Review	D. Kielpinski	Bose-Einstein Condensation in

12/4	University of Dartmouth	Physics Colloquium	D. Schneble	Microfabricated Waveguides
12/11	Boston	Colloquium, Boston College	WK	Bose-Einstein Condensation in Dilute Atomic Gases Recent Experiments with Bose-Einstein Condensates