Workshop on Inverse Problems @ Columbia University

	Morning Session, M	
8:50-9:10	Guillaume Bal	Opening remarks
9:10-9:40	Andreas Hielscher	Optical tomography: potential and limits of an emerging biomedical imaging modality
9:50-10:20	Timothy Hall	Tropical cyclone landfall in a changing climate: a statistical modeling study
Coffee break		
10:50-11:20	I. Cevdet Noyan	The double inverse problem: Strain determination with diffraction in polycrystalline materials
11:30-12:00	Allen Boozer	Design of magnetic fields for fusion plasmas
Lunch break (in <u>[</u>	Davis Auditorium) Afternoon Session, I	May 03, 2007 (Thursday) (<u>Davis Auditorium</u>)
Lunch break (in [Davis Auditorium)	
Lunch break (in <u>C</u> 13:30-14:00		May 03, 2007 (Thursday) (Davis Auditorium) Optimization methods for Total-Variation-based image restoration
13:30-14:00	Afternoon Session, I	Optimization methods for Total-Variation-based image
	Afternoon Session, I Donald Goldfarb	Optimization methods for Total-Variation-based image restoration
13:30-14:00 14:10-14:40	Afternoon Session, I Donald Goldfarb	Optimization methods for Total-Variation-based image restoration
13:30-14:00 14:10-14:40 Coffee break	Afternoon Session, I Donald Goldfarb Rama Cont	Optimization methods for Total-Variation-based image restoration Monte-Carlo methods for nonlinear inverse problems
13:30-14:00 14:10-14:40 Coffee break 15:00-15:30	Afternoon Session, I Donald Goldfarb Rama Cont Andrew Laine Alexey Kaplan	Optimization methods for Total-Variation-based image restoration Monte-Carlo methods for nonlinear inverse problems Challenges in bio-imaging: Opportunities for image analysts Utility of state-space reduction in ocean and climate inverse

	Morning Session,	May 04, 2007 (Friday) (<u>Davis Auditorium</u>)
9:00-9:20	Chris Wiggins	Inverse problems and imaging for systems biology
9:30-10:00	Fred Chang	Dynamic assembly of cells: rings, filaments and tubules
10:10-10:40	Ruben L. Gonzalez	Single-molecule enzymology of complex biochemical reactions
10:50-11:20	Rafa Yuste	Reverse engineering the cortical microcircuit
Coffee break		
11:50-12:20	IAIEXANDEL KIOSE	Fluorescence and bioluminescence tomography for molecular imaging
12:30-13:00	Elisa E. Konofagou	Ultrasound-based elasticity imaging
Lunch break (in A	APAM office: 200 S. W. I	l Mudd Building)