History of the Chicago Area NMR Discussion Group

Year	Location	Host	Keynote Speaker	Topic		
1970	Northwestern Univ.	Joe Lambert	Adam Allerhand	Fourier Transform NMR		
1971	Purdue Univ.	John Grutzner	Jiri Jonas	Relaxation Phenomena		
1972	Standard Oil, Naperville IL	Bruce Wenzel	Jake Schaefer	FT NMR Methods & Problems		
1973	Univ. of Illinois at Chicago Circle	Ben Bangerter	Paul Fagerness John Markley	Relaxation Times Protein Proton NMR		
1974	G.D. Searle & Co., Chicago	Roy Bible	David Natusch Gerhard Closs	Overhauser Effect Triplet Lifetimes		
1975	Notre Dame	Kenner Christiansen	Eric Oldfield	T ₁ Measurement & Application		
1976	Abbott Labs, North Chicago IL	Rich Egan	Tobin Marks	Organometallic NMR		
1977	Univ. of Illinois Urbana-Champaign	Eric Oldfield	Eric Oldfield	Superconducting Spectrometers		
1978	Amoco Research Center, Naperville	Joe Ray	None – Seventeen Local Speakers			
1979	Upjohn Co., Kalamazoo, MI	George Slomp	Ed Stejskal	Solid-State NMR		
1980	Purdue Univ.	John Grutzner	Joe Lambert	Modern Assignment Techniques		
1981	Loyola Univ., Chicago	Ken Kopple & David Crumrine	Michael Albright	High Resolution Multinuclear NMR of Solids		
1982	G.D. Searle & Co., Skokie, IL	Roy Bible	Hans Post	Introduction to NMR Imaging		
1983	Univ. of Illinois, Urbana-Champaign	Eric Oldfield	Stan Smith	NMR Imaging		
1984	Argonne National Labs	Robert Botto	Nino Yannoni Laurie Hall Dave VanderHart	Structure & Dynamics in Organic Solids Chemical Microscopy Polymer Fiber Morphology		
1985	Northwestern Univ.	Joe Lambert	Paul Lauterbur	Microscopic and Spectroscopic NMR Images		
1986	Northwestern Univ. Northwestern NMR Symposium	Tobin Marks	Gary Maciel (Bax, Lauterbur, Jelinski, Maciel,	MAS for Surface Studies		

	Oldfield, Ian Smith)				
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1987	Abbott Labs	Rich Stephens	Gerhard Wagner	Use of Heteronuclear Experiments for the Analysis of Protein Structure	
			Joe Ackerman	Metabolic Pathways and Blood Flow by NMR in Situ	
			Ed Stejskal	Solid State NMR of Macromolecules and Metabolism	
1988	Loyola Univ.,	David	Adam Allerhand	C-13 and P-31 Ultra High Resolution NMR	
	Chicago	Crumrine	Bob Bryant	Magnetic Relaxation in Solids and Liquids	
1989	Univ. of Illinois, Chicago	Cynthia Jameson	Dennis Torchia	Assignment, Structure, and Dynamics of Staphylococcal Nuclease	
1990	Upjohn Co.,	Paul	Ad Bax	Multinuclear NMR of Proteins	
	Kalamazoo, MI	Fagerness	Bernie Gerstein	Multiple Quantum Coherence in Dipolar Coupled Solids	
			Mark Conradi	Cross Relaxation Experiments in Metal Hydrides	
1991	G.D. Searle Co. Skokie IL	Roy Bible	Naresh Sethi	NMR in Rotating Solids;	
			Jiri Jonas	Dynamics of Fluids in Confined Geometries	
			Merrill Nuss	MRI and In-vivo Spectroscopy in the Pharmaceutical Industry	
1992	Notre Dame	Tony Serianni	Bernhard Blümich	NMR Imaging of Solid Polymers: Methods and Applications	
			David LeMaster	Assignment and Dynamics of Proteins Using Alternating Carbon Enrichment	
1993	Amoco Research Center, Naperville	Joe Ray	Lucio Frydman	Non-Cartesian Sampling Schemes in Multidimensional NMR	
			Thatcher Root	Deuterium NMR Studies of Acid Sites in Zeolites	
			Colin Fyfe	Background and Examples of NMR Microscopy	
1994	Purdue Univ.	John Grutzner	Adam Allerhand	Reminiscing by an Old Ft	
	(IUPUI)	(B.D.N.Rao)	Mike Melchior	Silicon/Aluminum Ordering and Zeolite Chemistry(Biochemical NMR Symposium)	
1995	Baxter Healthcare, Deerfield IL	Walter Smith	Kurt Wüthrich	Recent Advances in NMR Structure Determination of Proteins and Nucleic Acids	
1996	Univ. of Illinois at Chicago	Cynthia Jameson & Lucio Frydman	Alex Pines	Born in '45	

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1997	Argonne National Labs, Argonne IL	Robert Botto	Jim Prestegard	Measurement of Dipolar Couplings in Field Oriented Systems: Experimental Hazards and Structural Potential	
			Paul Lauterbur	NMR Microscopy: Up, Down, and Sideways	
			Kurt Zilm	Solids NMR of Uniformly C-13 Labeled Macromolecular Building Block: Assignment Strategies and Problems at High Fields	
1998	Northwestern Univ.	Ed Rivera Joe Lambert	Gary Drobny	Solid State NMR Methods for the Study of Biomaterials	
1999	Searle Co.	Roy Bible	Melinda Duer	Multiple Quantum NMR for the Study of Dipolar Couplings Between Quadrupolar Nuclei	
			Harry Dorn	Magnetic Resonance Studies of Empty-Cage and Metal Encapsulated Fullerenes	
2000	Univ. of Illinois,	Vera Mainz	Jonathan Sweedler	Small Volume NMR for Mass Limited Samples	
	Urbana-Champaign	Irbana-Champaign	A.J. Shaka	Extracting the Most Information from your NMR Experiments: Recent Work with the Filter Diagonalization Method	
			Lucio Frydman	NMR Experiments on Spinning and Static Samples: Something Old, Something New	
2001	OO1 Abbott Labs, Steve Hollis Ann McDe Abbott Park, IL Milt		Ann McDermott	A Dymanic View of Enzyme Function: Solid State NMR Studies of TIM and other Proteins	
		Levenburg	Mike Summers	New Insights into Retroviral Genome Recognition and Packaging	
2002	Notre Dame	Bradley Smith Tony Serianni	Nico Tjandra	Recent Advances in High Resolution NMR to Study Protein Structure and Dynamics	
		Tony Senamin	Charles Johnson	Why Chemists Need to make Pulsed Field Gradient NMR Diffusion Measurements	
			Mike Shapiro	Epitope Mapping of Ligand-Target Interaction by NMR	
2003	BP Naperville Complex	Steve McKenna	Peter Rinaldi	Multidimensional NMR Studies of Synthetic Macromolecules	
			Lewis Kay	Looking Towards the Future with New NMR Probes of Protein Structure and Dynamics	
2004	Loyola Univ. , Chicago	David Crumrine	Art Palmer	New Approaches for Characterizing Microsecond- Millisecond Timescale Dynamics in Proteins	
			Ruth Stark	NMR Structural Studies of Intractable Plant Biopolymers	

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2005	Abbott Labs, Abbott Park, IL	David Whittern	David Grant	Combined Solid State NMR and Powder Diffraction Study of Natural Products. Synergism Provides a Method for Molecular X-Ray Structural Analysis
			Art Pardi	Structure and Dynamics of RNA and Protein-RNA Systems
2006	Univ. of Wisconsin, Madison	Tom	Mark Conradi	Restricted Diffusion of Gases in Lungs
	Iviadison	Stringfellow	Jeremy Nicholson	Statistical Spectroscopy in Top-Down Systems Biology: From Personalized Healthcare to Molecular Epidemiology
2007	Argonne National Labs, Argonne IL	Rex Gerald II	Ed Samulski	Insights into Structure and Symmetry of Liquid Crystals via Deuterium NMR.
			David Weliky	Nuclear Magnetic Resonance Studies of: (1) Viral Fusion Peptides and Proteins and (2) High Temperature Metal Chalcophosphate Syntheses.
2008	Washington Univ., St. Louis MO	Sophia Hayes	Lucio Frydman	Citius, Altius and Fortis - at the Interface of NMR, MRI and EPR.
2009	Baxter Healthcare, Deerfield IL	Joe Ray and Christina	J. Prestegard	New Assignment Strategies for Large and Glycosylated Proteins .
		Szabo	Cynthia Larive	Adventures in Mixture Analysis by NMR.
2010	Univ. of Illinois,	Chad Rienstra	Len Mueller	Solid-State NMR as a Probe of Protein Structure and
	Urbana-Champaign		Hashim Al-Hashimi	Function. 3D Atomic Resolution Visualization of Nucleic Acid Dynamics by NMR.
2011	Baxter Healthcare,	Joe Ray and	Daron Freedberg	NMR of Carbohydrates On & Off Cells
	Round Lake IL	Christina Szabo		Dynamic Nuclear Polarization at High Magnetic Fields.
			Klaus Schmidt-Rohr	Spectral Editing in Solid State ¹³ C NMR: Analysis of Complex Organic Matter and Nanocrystal Bound Citrate in Bone.
2012	Purdue Univ.	John Grutzner	Ed Olejniczak	Cancer Drug Discovery Using Fragment Based Approaches and Structure Based Design.
			Robert Tycko	Biomolecular Solid State NMR with Dynamic Nuclear Polarization at Very Low Temperatures.

	Location:	Meeting Host:	Meeting Chair:	Keynote Speakers:	Topics
2013	TCS Conference Center at Argonne National Lab	John V. Muntean	Yoshitaka Ishii	Ad Bax	"Homonuclear decoupling and residual dipolar coupling: How they can help us study folded and intrinsically disordered proteins"
				Chris Jaroniec	"Solid-state NMR structural studies of proteins using paramagnetic probes"
				Rod Wasylishen	"Progress in studying protons in transition metal hydrides and quadrupolar nuclei in solid materials."
2014	Northwestern Univ.	Ishwar Radhakrishnan	Chad Rienstra	Charalampos (Babis) Kalodimos	"Molecular Chaperones in Action"
				Gianluigi Veglia	"Solid-State NMR of Membrane Protein Complexes"
2015	AbbVie, Inc.	lan Marsden	Christina Szabo	Rafael Brüschweiler	"NMR of Complex Biomolecular Systems: from Allostery of Glucokinase to the Analysis of Metabolomics Mixtures"
				Katherine Henzler- Wildman	"(A)Symmetry and Exchange: Testing the Multidrug Transport Mechanism of EmrE"
				Eric Munson	"Solid-State NMR Studies of Pharmaceuticals"
2016	Medical College of	Brian Volkman	Nikolai	Jeffrey C. Hoch	"Beyond Fourier"
	Wisconsin, Inc.	(MCW)	Skrynnikov (Purdue)	Richard Kriwacki	"Phase Separation in Biology: Insights into Mechanism from NMR"
				Tatyana Polenova	"Structure and Dynamics of HIV-1 Protein Assemblies by Integrated MAS NMR, MD, and Density Functional Theory"
2017	Pfizer Lake Forest Campus	Justin Lorieau and Yoshitaka Ishii	Edward Zartler	Song-I Han	"The Effect of Spin Dynamics in Dynamic Nuclear Polarization"
				Andy Byrd	"Allostery and Dynamics Create Processivity in Ubiquitanation"

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2019	Univ. of Wisconsin Madison	John Markley and Katherine Henzler-Wildman	Joe Ray	Frank Delaglio Ann McDermott	"Antibody Therapeutics" "Protein Structure and Dynamics"