



Global NMR Discussion Meetings



Newsletter | April 2026

Editor's Note

"Alone we can do so little; together we can do so much"
– Helen Keller

Greetings and a warm welcome to the inaugural issue of the Global NMR's newsletter.

We are glad to witness the extraordinary pace of development in the field of Nuclear Magnetic Resonance (NMR), one of the most powerful and versatile tools in modern science. In an increasingly interconnected world, progress depends not only on individual discovery but on meaningful dialogue and collective effort. Global NMR is a community-driven initiative that brings together researchers, students, and enthusiasts worldwide, with the goal of fostering collaboration, facilitating knowledge exchange, and promoting accessibility in magnetic resonance sciences.

Global NMR was founded with a simple intention: to create a collaborative space where NMR enthusiasts from around the world could participate collaterally with cutting-edge NMR research and a classroom-style teaching in a webinar form. Today, our vision extends beyond NMR to embrace the full spectrum of magnetic resonance, from imaging to electron resonance, while also connecting with the rapidly evolving field of quantum sensing.

Over the years, we have developed a range of initiatives to support this mission. Our educational content includes a dedicated YouTube channel featuring more than 110 tutorials, alongside regular online conferences that bring together experts and learners from across the world. We warmly invite all magnetic resonance enthusiasts to join and engage with these resources.

With the launch of this bi-annual **newsletter**, we introduce a new written platform designed to further connect the community and provide worldwide visibility to researchers and events. In each forthcoming issue, we will highlight portraits of emerging researchers, helping to showcase the next generation of scientists shaping our field, and offer an overview of the next Global NMR activities. We **welcome suggestions from the community** and remain committed to evolving this newsletter based on your interests and needs. Together, we can cultivate a vibrant network that strengthens the role of MR across chemistry, biology, materials science, medicine, and beyond.

We thank all of you for being part of this journey. Stay tuned for further updates!

With warm regards,
Dr. Tamali Nag, Ph.D.
Editor, Global NMR Newsletter

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Our Mission

Global NMR is a collaborative platform dedicated to fostering knowledge exchange, discussions, and advancements in the field of Nuclear Magnetic Resonance (NMR) spectroscopy. Our mission is to connect researchers, educators, and industry professionals worldwide, providing a space to explore cutting-edge developments, share expertise, and promote innovation in NMR.

Upcoming Seminars

April 21st

Dr. Benjamin Tatman

April 28th

Prof. Malcolm Levitt

May 5th

Dr. Jonas Koppe

May 19th

Dr. Jacob Holmes

June 2nd

Dr. Yury Kolyagin

June 16th

Dr. Yao Fu

June 30th

Dr. Yifan Quan


Contact and Follow Us!

Email: globalnmrdiscussionmeeting@gmail.com

Website: Visit www.globalnmr.org

 **X:** @global_nmr

 **Bluesky:** @globalnmr

 **LinkedIn:** @global nmr discussion meetings

 **WeChat:** @Global NMR Discussions



Special Feature

To celebrate the launch of our inaugural newsletter, we are delighted to spotlight two of Global NMR's distinguished members, who share their inspiring perspectives on advancing research and embracing broader opportunities through their journey with Global NMR.

Dr. Amrit Venkatesh

1. Can you describe your current role at UVA and the focus of your research program?

I am an Assistant Professor of Chemistry at the University of Virginia, where my group develops advanced nuclear magnetic resonance (NMR) methods to unravel structure and dynamics in complex materials for sustainable chemistry. We focus on solid-state NMR and dynamic nuclear polarization (DNP) to characterize catalysts and bio-relevant materials. Our work aims to provide new insights that guide the design of materials with improved activity.

2. What experiences led you to your current role?

I was inspired to pursue NMR during my research experiences in India. I received my PhD in physical chemistry from Iowa State University, where I developed fast magic angle spinning (MAS) indirect detection solid-state NMR spectroscopy to investigate nuclei across the periodic table. Then, I took up a postdoctoral position supported by a Marie-Curie fellowship at the Swiss Federal Institute of Technology in Lausanne. At EPFL, I developed DNP polarizing agents and approaches to improve MAS DNP in materials and biological systems. Before joining UVA, I was a scientist at the National High Magnetic Field Laboratory in Tallahassee, Florida, where I built collaborations to leverage high magnetic field NMR for materials characterization. At UVA, I am excited to build a research program that pushes the boundaries of magnetic resonance while fostering a collaborative and inclusive environment for students.

3. What is the vision driving your research group, and what scientific challenges are you aiming to tackle?

My group targets linking molecular and electronic structure in materials, to enable the development of structure-property relationships. We develop and apply NMR of nuclei across the Periodic Table to probe structure, defects, interfaces, and dynamics across a wide range of solids. By combining dynamic nuclear polarization, fast MAS, high magnetic fields, and innovations in pulse sequences, we aim to dramatically expand what is experimentally accessible. We are particularly interested in enabling high-resolution solid-state NMR on complex heterogeneous systems previously considered "too difficult," thereby opening new



avenues in catalysis, energy materials, and pharmaceuticals. Our work is routinely supported by electron paramagnetic resonance (EPR) spectroscopy and density functional theory calculations. As our program grows, we aim to deepen our collaborations to translate our fundamental insights into meaningful advances in materials design.

4. How do you engage with the broader scientific community and support outreach in magnetic resonance?

Leveraging our unique solid-state NMR and EPR infrastructure, we aim to tackle challenges in materials chemistry, in collaboration with expert groups. At UVA, our group is committed to inspiring students to explore experimental physical chemistry and magnetic resonance through hands-on research experiences and mentoring. During the COVID-19 pandemic, I co-founded Global NMR, an online seminar platform created to keep the magnetic resonance community connected during a time of isolation. What began as a temporary initiative has grown into a sustained, international forum that continues to host seminars, annual conferences, and trainee-centered events.

5. Are there opportunities for students or postdoctoral researchers to join your group?

We are currently seeking trainees at all levels including graduate students, undergraduate researchers, and postdoctoral scholars who are excited about pushing the boundaries of magnetic resonance and exploring new challenges in materials characterization. Prospective candidates are encouraged to reach out to discuss opportunities and current openings.



Dr. Michael Hope

1. Can you describe your current role at UVA and the focus of your research program?

I'm an assistant professor and EPSRC Fellow in the department of chemistry at the University of Warwick, UK. My group's research focuses on the use of solid-state NMR and complementary techniques to characterise functional materials at the atomic scale. By understanding how materials work, and how that depends on their structure, new materials can be designed with better performance for a given application. We're particularly interested in materials for energy storage and generation, such as materials for batteries and solar cells.

2. What experiences led you to your current role?

I studied at the University of Cambridge, UK for my undergraduate degree in natural sciences, specializing in chemistry. I joined the group of Prof Clare Grey for my 4th year project and fell in love with solid-state NMR, staying for a further four years to complete my PhD. I spent my time in the Grey Group learning how to perform solid-state NMR experiments and "testing" the capabilities of the probes. I had the freedom to explore different projects, including electrochemical metallization of VO_2 , surface-selective DNP, paramagnetic lanthanide oxides, and lead-halide perovskites. I then moved to EPFL in Switzerland and spent four years as a postdoctoral researcher in the group of Prof Lyndon Emsley, including two years as a Marie Skłodowska Curie Fellow. My NMR education continued at EPFL, along with more perovskites, DNP, and "pushing" the equipment. It was also during my time at EPFL, at the start of the pandemic, that I helped found the Global NMR webinars. I started at Warwick in November 2023, a little over two years ago.

After a year setting things up, the group really began in October 2024, with Helena starting as my first PhD student. Soon after, Ryan joined as a postdoc, and our latest addition is Kepler who recently started his PhD. We've also had a steady stream of talented masters and summer students. The Hope group is part of the wider Warwick Solid State NMR Group (Prof Steven Brown, Dr Ying Chow, Prof John Hanna and Prof Józef Lewandowski) and we benefit from shared equipment, expertise, and comradery (cake!).



3. What is the vision driving your research group, and what scientific challenges are you aiming to tackle?

The Hope group is exploring various different materials using solid-state NMR, with a particular focus on energy applications; here are a few current projects: We've been using ultra-high field to measure challenging quadrupolar nuclei in halide double perovskites, including the newly installed 1.2 GHz spectrometer at the UK High-Field Solid-State NMR Facility ([10.1016/j.ssnmr.2025.102052](https://doi.org/10.1016/j.ssnmr.2025.102052)). Returning to some of my earliest interests, we're investigating MXenes – a class of layered transition metal carbides – for applications in electrochemical energy storage and membrane applications. We're also collaborating with the Walton group at Warwick to study metal-organic frameworks based on Sn(II) nodes (paper coming soon!). New directions we're exploring include CO_2 capture, supramolecular chemistry, and polymer dynamics.

4. How do you engage with the broader scientific community and support outreach in magnetic resonance?

Outside of research, I teach atmospheric chemistry and air pollution as part of the 2nd year chemistry for sustainability module, and I help with outreach to high school students. One of my favourite outreach activities is identifying unknown alcoholic drinks from their ethanol content using our benchtop NMR spectrometer – there's a lot to learn about even such a simple system, especially for students who've never seen an NMR spectrometer before!



Call for nominations



We would like to use this opportunity to invite amazing fellow magnetic resonance researchers to get featured in our future newsletter issues! Come grab yourself a spot and showcase your research in a quirky and chic way! All we would require is your bio, research topic, what keeps you interested about MR.



Outreach and Global Engagement

Useful NMR links:

[NMR literature for spin > 1/2 nuclei](#)
[Who's who in ssNMR](#)

5th Global NMR Online Conference

We invite students, postdocs, and researchers to present their work. Participants are invited to upload a short (2-minute) video to present their research. Innovative formats and high-quality work will be recognized with prizes. Creative, easy to understand presentations in the form of short videos are highly encouraged.

Showcase your science

Connect globally

Get recognized

Conference Time

July 22nd – July 24th, 2026

Registration Window

open until July 8th

Registration Link

<https://www.globalnmr.org/registration-conference/>

Become Our Sponsor

Join the Global NMR Online Conference 2026 and showcase your innovations to an international audience of researchers, industry experts, and decision-makers in magnetic resonance and materials science.

Our virtual exhibition platform offers high visibility, direct engagement, and targeted outreach through dedicated e-booths, live demonstrations, and featured content.

What Sponsors Get:

- Global visibility across the NMR community
- Dedicated e-booth
- Opportunity to showcase technology demos or presentations
- Share application notes and technical resources
- Direct contact with attendees
- Engagement and visibility throughout the conference. For sponsorship inquiries, email: globalnmrdiscussionmeeting@gmail.com

Discussion forum “AI in magnetic resonance: Tool Teammate or Trap”

Few months ago, Global NMR launched a community-wide initiative to gather feedback on the role of artificial intelligence in magnetic resonance.

As AI is transforming research in unprecedented ways, much remains uncertain about how it will shape the future of research in our field and how it can be used responsibly and effectively. How is AI really being used in MR? Is it becoming a powerful tool or something we should approach more cautiously?

To better understand the current landscape, we have created a short questionnaire on our website and would greatly value your input. Your responses are 100% anonymous. The collected data will be analyzed by Global NMR, and the results will be shared with the community in the coming months via email and our social media platforms.

Through this collective feedback, we hope to provide a clearer picture of how AI is currently being used and perceived across the MR community, helping everyone better understand the opportunities and eventual challenges through the perspectives of peers!

This initiative will also feed into a broader discussion at the 67th ENC 2026, where we will host a panel session over lunchtime on **Wednesday, April 15th**. During this session, we will present the survey findings and continue the conversation with the community through an interactive panel-audience discussion. We are looking forward to meet you at ENC, hear your thoughts, and continue the conversation together! We thank the organizers for providing this opportunity.

Join us at ENC 2026!



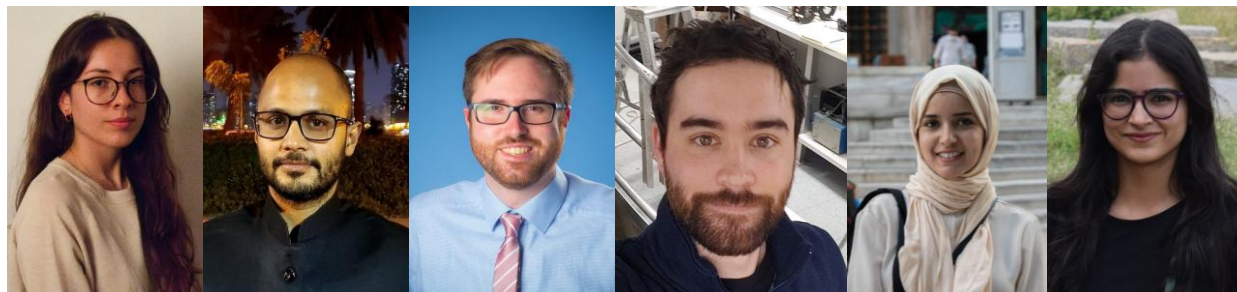


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With Appreciation



Executive Board: L to R, Dr. Charlotte Bocquelet (President), Dr. Asif Eqbal (Secretary) and Dr. Adrian Draney (Treasurer), Dr. Blake Wilson, Dr. Nesreen Elathram, Nikita Rao



Organizers, GNMR (Left to Right)

First Row: Diganta Sarkar, Dr. Giulia Licciardi, Julie Maibøll Kaasen

Second Row: Dr. Marcel Levin, Dr. Mengshan Ye (Editor, Newsletter committee), Pooja Dhurjad and Dr. Tamali Nag (Editor, Newsletter committee)



We extend our sincere appreciation to ISMAR for their collaboration with Global NMR and for providing us with the opportunity to gain international visibility, enabling the unification of MR scientists worldwide through the exchange of knowledge and collegial spirit.

[ISMAR events](#) - discover upcoming magnetic resonance events organized by ISMAR.