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2022 AGM of the IES

Wednesday, August 31, 2022

The 2022 Spin Chemistry Meeting is the IES designated conference

With the purpose to foster existing, and generate new, connections with the spin chemistry, spintronics and quantum information science EPR community.

17th International Symposium on Spin and Magnetic Field Effects in Chemistry and Related Phenomena Evanston, IL, August 28-September 1, 2022.

SPIN CHEMISTRY MEETING 2022

What is the IES?

The International EPR Society was founded n in 1989, and aims to stimulate scientific development of electron paramagnetic (spin) resonance (EPR/ESR), facilitate communication among EPR/ESR researchers, and encourage the use of EPR/ESR techniques across a wide variety of research fields. The Society maintains a database of active members in EPR/ESR research. Members have access to awards and services.

IES is the ...

- Worldwide EPR Society
- Publishes the EPR newsletter
- Gives EPR awards and recognitions
- Supports EPR schools and conferences
- Sponsors IES Virtual EPR Meeting
- Poster Prizes for young EPR scientists
- Best Paper Awards for young scientists
- Silver and Gold Medals in EPR
- Creates a Communication platform
- Promotes EPR papers via Twitter



- 1. Introducing the IES Executives (2021-2023)
- 2. Announcement of the 2022 IES Awards
- 3. Report of IES online activities 2022
- 4. Report of the EPR Newsletter Editor
- 5. In Memoriam of the Giants of EPR
- 6. Sponsors and Patrons of the IES 2022
- 7. Report of the Secretary
- **8.** Report of the Treasurer
- 9. Planned Activities for the next year
- 10. Questions, Discussion, and Suggestions



Executive Officers (2021-2023)

President



Songi Han UC Santa Barbara

Vice-President Asia



Yasuhiro Kobori Kobe University

Vice-President Europe



Maxie Roessler
Imperial College London

Vice-President America



Michael Wasielewski Northwestern University

Secretary



Aharon Blank Technion

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Peter Qin University of Southern California

Immediate Past President



Thomas Prisner University of Frankfurt

Editor EPR Newsletter



Laila Mosina Zavoisky Institute



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IES Awards for Young Scientists

2022 IES Best Paper Award goes to

<u>Dr. Katherine Richardson</u>, Imperial College London

"Functional basis of electron transport within photosynthetic complex I", Nature Communications 2021, 12, 5387.



2022 IES Best Paper Award goes to



Katherine Richardson @K_HRichardson (Imperial College, London)

for her outstanding work on the "Functional basis of electron transport within photosynthetic complex I", Nature Communications 2021, 12, 5387.

Congratulations Katherine!

8:34 AM · Apr 27, 2022 · Twitter Web App

2022 John Weil Young Investigator Award

For outstanding contributions to EPR by a young scientist

<u>Dr. Asif Equbal</u>, Assistant Professor, NYU Abu Dhabi Award Lecture delivered at the <u>2022 Rocky Mountain</u> <u>Conference for EPR</u>

"Dipolar Order in Electron Spins: An EPR Signature of Thermal Mixing DNP"





History of the Young Investigator Award

1994 **Devkumar Mustafi** (Univ. Chicago)

1995 **David Britt** (UC Davis)

1996 **Gunnar Jeschke** (ETH Zürich)

1997 Robert Bittl (FU Berlin)

1998 Alex Smirnov (Uni NC)

1999 Ilya Shkrob (Argonne)

2000 **Bernard Gallez**(Louvain

Karsten Mäder (Halle)

2001 Mark Newton (Warwick)

2002 Marina Bennati (MPI Göttingen)

2003 **Stephan Zech** (Amgen, Boston)

2005 Eric McInnes (Manchester)

2007 **Leonid Kulik** (Novosibirsk)

2009 **Stefan Stoll** (Uni. Washington)

2011 Enrica Bordignon (Bochum)

2012 Laxman Mainali (Milwaukee)

2013 Dane Robert McCamey (Utah)

2014 Tomoaki Miura (Niigata), Nicholas Cox (ANU)

2015 Ilia Kaminker (Jerusalem)

2016 Claudia Tait (Washington)

Sergei Veber (Novosibirsk)

2017 **Shi Fazhan** (Hefei)

2018 **Shunsuke Furuya** (Riken)

2020 Sabine Richerts (Freiburg)

2021 Thomas Schmidt (NIH)

2022 Asif Equbal (NYU AD)





2022 IES Silver Medal in Biology and Medicine

For significant contributions to EPR including its application, development and improvements in the area of Biology / Medicine

Prof. Bernard Gallez, Biomedical Magnetic Resonance Research Group
Louvain Drug Research Institute (LDRI), Belgium
Award Lecture to be delivered at the XIIth International Workshop on EPR in Biology and Medicine (Krakow, Poland), 10-13 October 2022 (organized by Martyna Elas)

His longstanding contributions are to the field of *in vivo* EPR spectroscopy since the early 1990s and continuing to the present time. He made seminal contributions to the field of characterizing the tumor microenvironment (physiologic and metabolic) using EPR methods in mouse models of human cancer.

<u>Prof. David Cafiso</u>, Alfred Burger Professor of Chemistry and Molecular Physiology and Biological Physics, University of Virginia, USA Award Lecture location: TBD



For his fundamental contribution to apply EPR spectroscopy and site-directed spin labeling to study reversible membrane-protein electrostatic interactions that function in cell signaling systems and in membrane trafficking of relevance to human disease states and neurotransmitter release, and membrane protein structure and function for transport mechanisms.



2022 IES Silver Medal in Physics

For significant contributions to EPR including its application, development and improvements in the area of Physics

<u>Prof. Marina Bennatti</u>, Research Group Leader of the MPI for Interdisciplinary Research and Professor at the University of Göttingen, Germany

Award Lecture was delivered at 55th ESR Spectroscopy Group of the Royal Society of Chemistry Meeting for EPR, St. Andrews, June 6-10, 2022.

Honored for her fundamental contributions to advance the physics of electron-nuclear double resonance (ENDOR) and liquid-state dynamic nuclear polarization (DNP) spectroscopy at high magnetic fields, and their application for the study of paramagnetic molecular systems.



2021 IES Silver Medal in Methods

For significant contributions to EPR including its application, development and improvements in the area of Instrumentation and Methods

<u>Prof. Stefan Stoll</u>, Professor at the University of Washington, Seattle, USA

Award Lecture was delivered at 55th ESR Spectroscopy Group of the Royal Society of Chemistry Meeting for EPR, St. Andrews, June 6-10, 2022.

EPR spectroscopy and analysis. Stoll initiated the development of the first generally applicable package for simulating and fitting EPR data. EasySpin is now a mainstay of the field of EPR and an essential tool used by virtually all modern EPR laboratories around the world. Remarkably, Professor Stoll has invested significant effort and resources into making EasySpina freely available and accessible tool, while he continues to contribute to dissemination of this important software tool through ongoing training workshops for spectroscopists of all backgrounds, and regular upgrades to the software packet.





FELLOW of the International EPR Society

may be conferred on individuals who have made influential and distinguished contributions to the practice of EPR (ESR) Spectroscopy and its welfare over a long period.





THE INTERNATIONAL EPR/ESR SOCIETY

in recognition of outstanding contributions to electron paramagnetic resonance spectroscopy the Society appoints

Prof. Asako Kawamori

FELLOW OF THE SOCIETY 2022



President Songi Han Secretary Aharon Blank







2022 Best Poster Prizes (to date)

St. Andrews

Ciaragn Rogers, University of Manchester. "Modelling Conformational Flexibility in a 2022 RSC EPR Conference Spectrally Addressable Multi Spin Molecular Qubit Model System"

> Orit Nir-Arad, Tel-Aviv University, "Design and Construction of 14 Tesla DNP / EPR spectrometer."

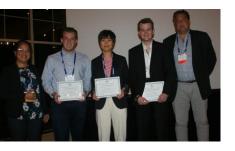


2022 Euromar Utrecht

Tobias Hett, University of Bonn: "Influence of Spin Label Conformer Ensembles on Pulsed Dipolar EPR Distance Distributions"

Mantas Simènas, Vilnius University: "ESEEM spectroscopy of methyl group quantum tunneling in Co-doped dimethylammonium zinc formate"

2022 RMC EPR Copper Mountain



Xiaowei Bogetti, University of Pittsburgh: "Newly Developed dHis-Cu2+ Force Fields Establish Cost-Efficient Protocol for DEER Measurements at Q-band"

Cooper Selco, University of Southern California: "Non-Markovian Spin-Bath Dynamics of a Single Nitrogen Vacancy Center in Diamond"

E. N. Bassey, University of Cambridge: "Revealing Redox Processes and Probing Phase Transformations in Sodium-Ion Battery Cathodes using EPR and NMR Spectroscopy"



IES Poster Award Winners will receive:



\$200 prize money (from Treasurer Peter Qin)

1 year free IES Membership

Invitation to speak at the IVEM

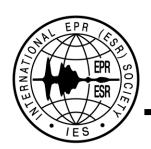
Invitation to be highlighted in the EPR Newsletter

Certificate

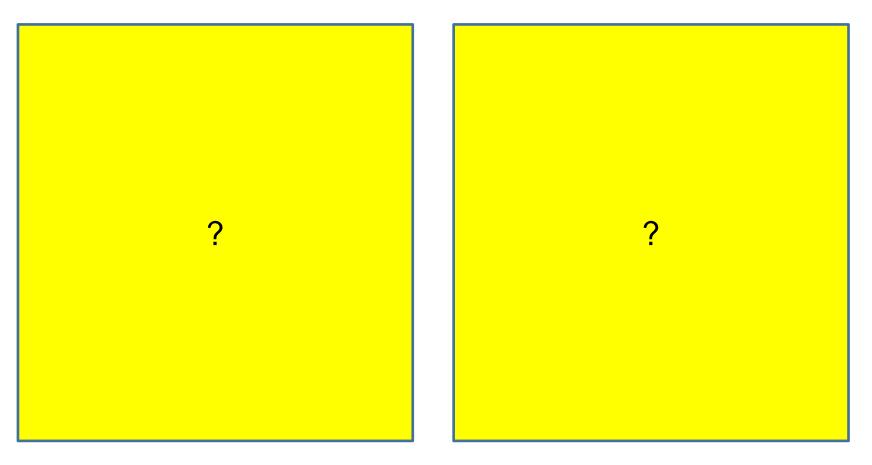
International EPR Society
is only as good as its Members

<u>IES needs you:</u>
https://ieprs.org/registration/
NEW group registration:
https://ieprs.org/group-payment/





Best Poster Prizes at the 2022 Spin Chemistry Meeting!





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IES Virtual EPR Meeting (IVEM)

Biweekly meeting, Signup: https://forms.gle/Usv8sbj3LUr7QvcE8
ALL IVEM speakers get opportunity to be highlighted in the EPR Newsletter

IVEM Series



NEW!!

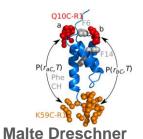


Chairs: Zhongyu Yang, Thomas Schmidt

Committee: Tomas Orlando, Joseph McPeak, Yujie Zhao

IVEM talk awards will be given to one out of eight presenters based on performance.

Biomolecular



'In-cell EPR techniques'

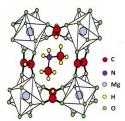
Joshua Casto

'Structural Link in the Transcription Cycle of a Metalloregulator'

Michael Lerch

'High-pressure EPR toolkit'

Chemistry



Jasleen Brinda

'Dielectric Transition and Molecular Dynamics in the Metal-Organic'

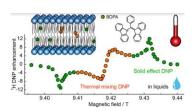
Josh Biller

'EPR and Corostion'

Rebekah Taylor

'para-Xylene Oxidation Catalyst'

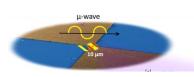
DNP



Andrei Kuzhelev

'Solid-like Dynamic Nuclear Polarization Observed in the Fluid Phase'

Instrumentation



Nandita Abhyankar

'Scalable microresonators for room-temperature'

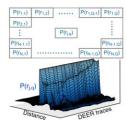
Yaron Artzi

'High-Temperature Superconducting Surface Micro-Resonators'

Shutian Lu

'Quantum biosensor for DNA aptamers and NV centers'

Software



Madhur Srivastava

'Two-dimensional reconstruction of distance distributions'

Anna Matveeva

'Data collection approach in PELDOR/DEER: how can it be optimized'

NEW 2022/23 SEASON STARTING SOON!
SIGN UP. TUNE IN. PARTICIPATE.



IES Twitter (https://twitter.com/EPR ESR)



843 Followers, 94 Following

WANTED: NEW SOCIAL MEDIA OFFICER FOR THE IES Email Songi or Aharon

Critical medium to reach young scientists and a broader audience

EPR ESR tweets are embedded on several webpages (ieprs, RSC EPR group, etc)

Join and follow us @EPR_ESR

Encourage your students to follow @EPR ESR and stay active

- Tweets about EPR Job Postings
- Tweets about EPR Conferences
- Tweets about EPR Publications
- Request a tweet from the IES (via its webpage)

International EPR Society



International EPR Society

@EPR ESR

The International EPR Society (IES) represents EPR and ESR research and development worldwide. Follow us and get updates on new EPR papers, EPR prizes and news.

94 Following 843 Followers



International EPR Society @EPR ESR · 9h

The 2022 IES AGM will be taking place tomorrow Aug 31 at the Spin Chemistry Meeting in hybrid format, followed by a lecture by Stefan Stoll @StollPatrol. Emails went out to current and former IES members, but you can still register. For program see:isen.northwestern.edu/spin-chemistry...

17 4



International EPR Society @EPR_ESR · 9h

ALL current and former IES members are welcome to attend the IES featured lecture and the AGM for free using this link:

Eh

northwestern.zoom.us

Welcome! You are invited to join a webinar: Spin C... This is the virtual component for the SPIN meeting. The Spin Chemistry Meeting is a biannual ...



Wishlist from past AGMs

Create more visibility of the Society

– also for young researchers!

- Invite young scientists (YIA/Poster Prize winners) to actively contribute to the IES
- Create an interactive Communication Platform on our Webpage – *Twitter....*
- Put links to tutorials, special articles on our new Webpage
- Create a directory of EPR groups
- Host EPR database first for Dipolar EPR Data base

Thomas Prisner and colleagues are actively working on this idea, forging funding pathways, securing partnerships and collaborators in data science. Stay tuned



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Newsletter Editor's Report



Since the previous Annual Meeting of the IES in 2021 at ISMAR-APNMR, we published single issues 31/3, 31/4, 32/1 and 32/2. We hope you had a look at these issues on the IES website and got copies.









31/3

31/4

32/1

32/2

Now we work on 32/3-4, and you are welcome to contribute with your material!

The jewel of the IES Written by Editor Laila Mosina

Newsletter Editor's Report (continued)



Columns of the EPR newsletter

Editorial

IES business

Awards

Meet Our Sponsor

Another Passion

Anniversaries

EPR newsletter Anecdotes

Market Place

In Memoriam

Present Meets Future

Software

Tips and Techniques

Notices of Meetings

Conference Reports

New EPR Faculty

New Books and Journals

(including Hot Science)

Reader's Corner

Guest of the Issue

Please feel free to submit YOUR material to all columns, dear colleagues!!!

It is you who produce the news, we just present it in the EPR newsletter.

WELCOME!!!

Newsletter Editor's Report (continued)

On behalf of the Editorial Board, I thank most heartily all contributors to the EPR newsletter with special thanks going to the CEOs of the IES and editors of the columns in the EPR newsletter: Sabine Van Doorslaer, Keith Earle, Candice Klug, Wolfgang Lubitz, John Pilbrow, Stefan Stoll, and Sergei Akhmin, our Technical Editor).

I gratefully acknowledge collaboration with Associate Editors Candice Klug, Hitoshi Ohta and Sabine Van Doorslaer.

Laila Mosina





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In Memorian of the Giants of EPR



Shimon Vega (1943 - 2021)

Professor Shimon Vega, a member of the I department of Chemical and Biological Physics, Weizmann Institute of Science in Israel passed away on November 16th 2021, two days after his 78th birthday. Shimon was one of the pillars of Magnetic Resonance, a close collaborator and a dear friend for many decades. In this short obituary I will describe his long scientific career and major contributions to Magnetic Resonance along with his special, open hearted personality, which made



Richard W. Quine (1943 - 2021)

his help in 1980 to design a pulsed EPR spec-James S. Hyde



Medical College Wisconsin

create a circuit that would convert specified inputs to desired outputs. When GRE sought

Tribute prepared by Hal Schwartz and to appear in the EPRNL



Massimo Martinelli (1943 - 2021)

t the end of my studies of Physics at the University of Pisa, in 1995, I asked the professors of some university courses about the availability of a thesis work. The choice fell on a work concerning the development of a laser" system for the generation of millimeter waves The person in charge for this thesis told me that the work would be carried out as a par of the project for a novel high-field EPR apparatus, under the development at the Istitute di Fisica Atomica e Molecolare (IFAM) of the Italian National Research Council (CNR), in Pisa. He invited me to contact the IFAM coordinator of this project, Massimo Martinelli to better focus the activity of the thesis. The meeting with Massimo was revealing for me I was fascinated by his personality, given by a balanced combination of brilliance, respect



In Memorian of the Giants of EPR



Joan Henri van der Waals (1920-2022)

OPTICAL DETECTION OF ZERO-FIELD TRANSITIONS IN PHOSPHORESCENT TRIPLET STATES

J. SCHMIDT and J. H. VAN DER WAALS
Kamerlingh Onnes Laboratorium. Leiden. The Netherlands

Received 20 December 1968

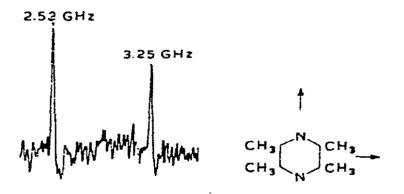
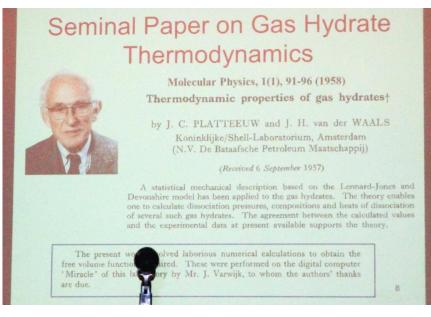
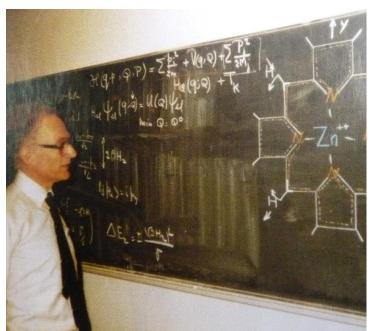


Fig. 1. Zero-field transitions of phosphorescent tetramethylpyrazine in a durene host as detected in the output of the photomultiplier: $T=1.92^{\rm O}{\rm K}$. The positions of the lires are 2.52 ± 0.02 and 3.25 ± 0.02 GHz and both correspond to light increase. The linewidth is about 15 MHz: sweep rate 35 MHz/s.

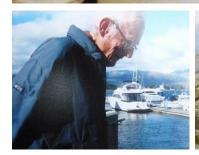
















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L&M EPR Supplies, Inc.

- . GMW Laboratory Electromagnets are now available with High Uniformity Poles, with uniformity in the range of a few ppm. Spectroscopy is now possible with a benchtop electromagnet.
- Metrolab PT2026 Pulsed-wave NMR Teslameter for precision measurements with overall accuracy to 5ppm and 33Hz measurement speed, suitable for high-stability closed-loop magnet control.
- Additional measurement equipment includes: Fluxgate Magnetometers (room temperature and cryogenic), 1-axis and 3-axis precision Hall Probes, Fast Digital Voltage Integrators, and precision Current Transducers & Electromagnet Power Supplies.

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http://www.jeol.com/



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Bridge12 Microwave Power Source (MPS)

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- Output Power > 10 W
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- Accepts external TTL trigger and 10 MHz reference
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Upgrade your existing commercial or home-built EPR specrometer with ODNP capabilities.

Turn-Key Operation of the instrument so you don't have to be a microwave engineer, keeping your focus on the research instead of troubleshooting home-built instrumentation.

Failsafe operation and constant monitoring of the forward and reflected power protects your precious samples.

Software AFC to make sure your system is always on-resonant with the cavity frequency to minimize sample heating.



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- Quasi-Optical Duplexers and Front-Ends
- Variable. Motorized Attenuators
- Universal Polarizers
- High- and Low-Power Absorbers











LOGS

Your Scientific Data Manag System with features tailogue magnetic resonance.







EPR100 Equipped with all CW mode functions of EPR200-Plus

Echo / FID measurement Relaxation time measurement Sweep echo detection **DEER** experiment **ENDOR** experiment

X-Band Pulse / Continuous Wave Electron Paramagnetic Resonance Spectrometer

>>> EPR100



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<1.5K to 1000K

Custom Cryogenic Solutions



Find Your

Store Your Data

SIGNALS

SIGNALS

LOGS

Management System

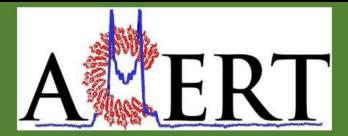
logs-repository.com



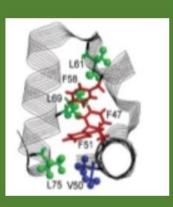
National Institute of

General Medical Sciences

NEW PATRON of the IES in 2022







NEW National Resource Center, dedicated to providing Service & Collaborations to the ESR and Biomedical communities

Complete/Comprehensive Resource for modern ESR—only Resource of its type in the U.S.

Built on 30+ years developing ESR for Biomedical studies:

- Under a prior NIH grant, 20 years of ESR technology development
- Focus is now Service/Collaborations

Travel Fellowship will be available to support the use of the ACERT facility

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Dr. Art Samplaski (607)-255-4632 and Dr. Madhur Srivastava

PI: Dr. Jack H. Freed Co-PI: Dr. Brian Crane



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Report of the Secretary (A. Blank)

The Secretary is responsible for the day-to-day operations of the Society, and ensures efficient functioning of the Society, e.g.:

- 1. The Secretary shall maintain all the records of the Society shall keep the minutes of Society meetings, and be responsible for the distribution of all essential information to members.
- 2. Sending out invoices to the sponsors (in consultation with the Treasurer).
- 3. Informing members (and sponsors) of the various items of interest, e.g. announcements of conferences, workshops, publication of new issues of EPR Newsletter.
- 4. Organization of material for awards given by the IES: medals, certificates and citations.

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Secretary Report (cont'd)

- 5. Overlooking financial status and membership of the Society (in consultation with the Treasurer).
- 6. Website:
- Maintenance and upgrades
- Adds, positions, photos, news, meetings
- We are looking for interesting photos, papers, links—please send them out.
- 7. Answering any enquiries;
- 8. Organizing AGM;
- 9. Liaisons with the President, Treasurer, Editor of the EPR

Newsletter, and the members of the IES Executive.

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Secretary Report (cont'd) – major tasks over the last year

- Continued updating of IES webpage
- Recruit speakers to present EPR tutorials at Bruker Webinars
- Handling of Awards, fellowships and the "Best paper Award" new initiative
- Updating of the IES twitter page (with Songi Han and the IES Social Media Officer)
- ❖ Printing and distribution of EPR Newsletter (with my kids ...)
- * Adding new sponsors





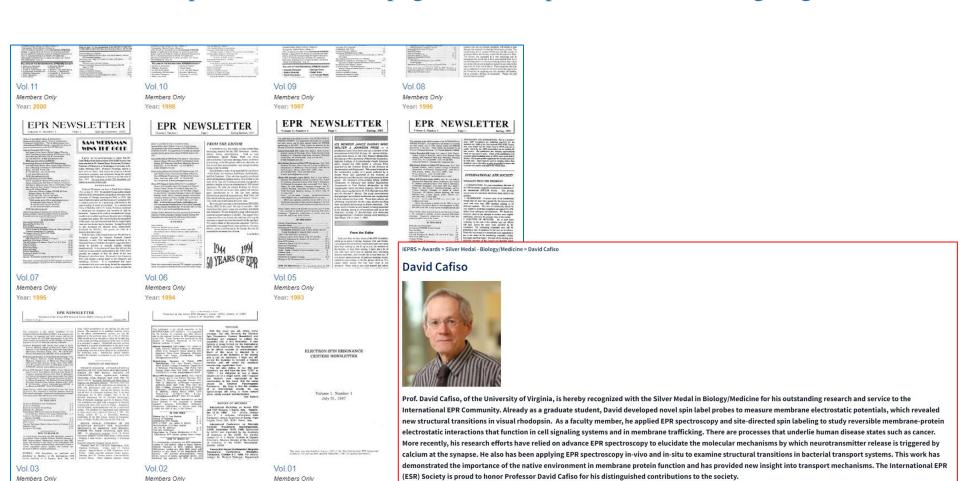
Year: 1991

Year: 1989

Year: 1987

Website updates, new for last year

- Collection of all Newsletters (Now done, from Vol. 1 1987)
- Upgrading details on Awardees all new Awardees have their photo and citation page, and also past Awardees (on-going..)





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Report of the Treasurer (Peter Qin)

Year 2021

Balance on January 1, 2021	\$ 56,155.70		
Deposits:			
Membership	\$ 4,436.12		
Sponsor Contributions	\$ 25,600.00		
TOTAL deposits:	\$ 30,036.12		
Expenditures:			
Internet Commerce & Merchant			
Services, Banking	\$ 682.49		
IES Community Support (Conferences;			
Training; Poster Awards)	\$ 4,820.00		
IES Operation (Web; Printing			
Editorial)	\$ 26,594.50		
Misc (Registration, Postage, etc.)	\$ 75.00		
TOTAL expenditures:	\$ 32,171.99		
Balance as on 12/31/2021	\$ 54,019.83		



2022 January - June

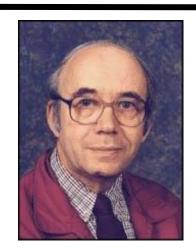
Balance on January 1, 2022	\$	54,019.83			
Deposits:					
Membership	\$	2,130.00			
Sponsorship	\$	7,430.00			
Misc*	\$	1,000.00			
Total deposits:	\$	10,560.00			
*tranfer from John Weil Fund to cover payment for 2021 YIA					
Expenditures: Financial Service Fees (Merchant					
Services, Banking)	\$	378.43			
IES Community Support (Virtual	'				
Gp Mtg)	\$	600.00			
IES Operation (Web; Printing					
Editorial)	\$	21,173.80			
Misc (Registration)	\$	133.75			
Total expenditures:	\$	22,285.98			
Balance on June 30, 2021	\$	42,293.85			



Treasurer Report (cont'd)

John Weil Fund

Established in 2010 in memory of Prof. John. Weil by family, friends, and colleagues to support John Weil Young Investigator Award



Starting Balance on 01/01/2021: \$21,913.58

Interest Income: \$ 226.65

Distributions for 2021 YIA: \$ (0.00)**

Ending Balance on 12/31/2021: \$22,140.23

** 2021 YIA award (\$1,000) paid from the general account on 12/2021; fund transferred from the John Weil account in 01/2022





Treasurer Report (cont'd)

Thank you, IES members Thank you, sponsors

Bruker BioSpin

Bridge 12*

CIQTEK*

GMW Associates

L & M EPR Supplies

Rotunda Scientific Technologies

Springer / Applied Mag. Res.

Virginia Diodes
Signals*

* New in 2021 - 2002



AGENDA

- 1. Introducing the IES Executives (2021-2023)
- 2. Announcement of the 2022 IES Awards
- 3. Report of IES online activities 2022
- 4. Report of the EPR Newsletter Editor
- 5. In Memoriam of the Giants of EPR
- 6. Sponsors and Patrons of the IES 2022
- 7. Report of the Secretary
- **8.** Report of the Treasurer
- 9. Planned Activities for the next year
- 10. Questions, Discussion, and Suggestions



Planned IES Activities: (S. Han)

Deadline for Nominations November 1, 2022 (earlier!)

- Gold Medal of the IES
- Fellows of the IES
- John Weil Young Investigator Award

- Nominations by active IES members
- 100-150 word citation
- CV
- Publication List

- IES Best Paper Award (for young scientists) March 2022
 - Self nomination
 - First author with support letter from corresponding author/ supervisor which explains the contribution of first author





IES Membership Drive: WE NEED YOU!

\$6/year for students, \$12/year for emeritus and post-doctoral fellows, \$36/year for full members.

- 1. Lowered barrier for becoming first time members
 - Immediate email confirmation is sent
 - Accepts credit card, Paypal, Alipay (there are some problems)
- 2. Automated renewal system
 - Email reminder is being sent
 - Automatic subscription is possible (could an email be sent confirming this annually?)
- 3. Collection hub for membership fee
 - Russian EPR society offers model
 - IES designated conferences, such as the ISMAR-APNMR
- 4. Group subscription options NEW \$50 for 6 members



NEWS: All Spin Chemistry Meeting Participants receive 1 year IES Membership! Please Renew in subsequent years.



2023 AGM to be held at the RSC EPR Meeting



Mark Your calendar

Poster Award

Award Talks

Award Talks

3et to know the wonderful

3et to know the wonderful

RSC EPR community







Questions? What can the IES do better?

Wishes, Ideas, Comments?

EMAIL US

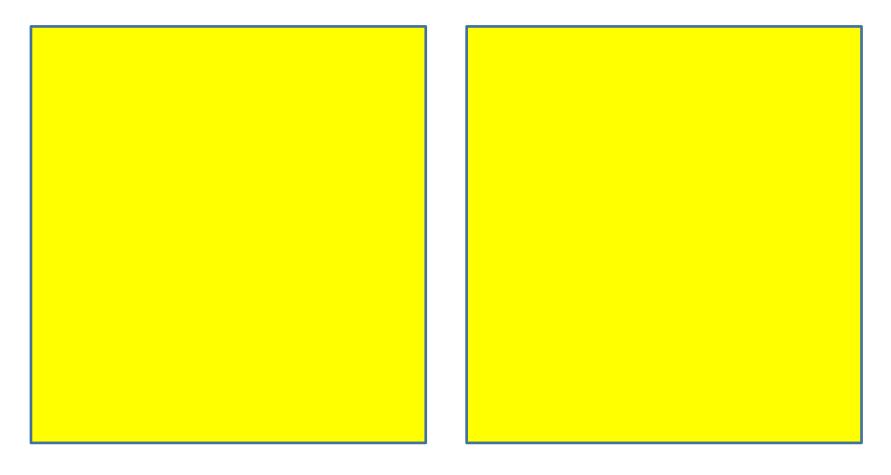
Songi Han: songi@chem.ucsb.edu

or ANY of the IES Executives





Best Poster Prizes at the 2022 Spin Chemistry Meeting!





THE INTERNATIONAL EPR (ESR) SOCIETY

POSTER AWARD CERTIFICATE

We are pleased to present this 2022 IES POSTER AWARD to

Emily Dowker

for having shown one of the BEST POSTERS

"Effects of hydrophobic modification and electrostatic interactions on sensitivity of riboflavin-ascorbic acid radical pairs to weak magnetic fields"

at the Spin Chemistry 2022 International Meeting,

Northwestern, USA, Aug 2022

Sogni Han IES President Michael Wasielewski Chairman of the Meeting



THE INTERNATIONAL EPR (ESR) SOCIETY

POSTER AWARD CERTIFICATE

We are pleased to present this 2022 IES POSTER AWARD to

Janko Hergenhahn

for having shown one of the BEST POSTERS

"Electron spin delocalization in radical anions of porphyrin molecular wires"

at the Spin Chemistry 2022 International Meeting,

Northwestern, USA, Aug 2022

Sogni Han IES President Michael Wasielewski Chairman of the Meeting

