

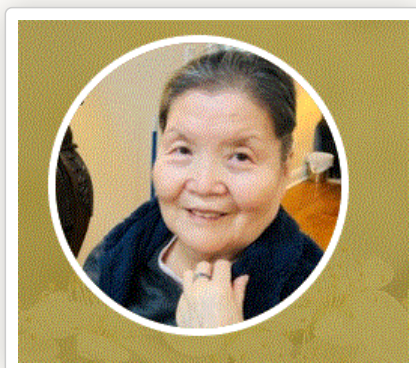
# scientific research

An examination of aspects of Unidentified Anomalous Phenomena (UAP) from a scientific perspective.

Thursday, June 2, 2022

## Dr. Ning Li and her anti-gravity research - further information

### The work of Dr. Ning Li



<https://www.berryhillff.com/obituary/ning-li?lud=4CF765EE88E7526FCBA619C30101F7E6>

Back in 2019, I wrote an article about the anti-gravity research of U. S. researcher, Dr. Ning Li, who subsequently passed away on 27 July 2021. Following the publication of that article, my interests moved on to other things. It was therefore, a pleasant surprise to recently receive an email from an individual named Kent Bye, who had undertaken his own research on the MITRE 2003 Gravitational Wave Conference, at which Dr. Ning Li presented a paper.

### Kent Bye's findings

With Kent's kind permission, I would like to document his findings, in this blog post. Kent wrote:

I went down a rabbit hole tracking down information on the MITRE 2003 Gravitational Wave Conference after some UFOtwitter discussion about Ning Li. I recalled that Hal Puthoff answered a question about her and said he read all of her work at the SCU AAP conference in 2021, but that she went dark and nothing came from it. Hal said that he was there at the 2003 MITRE conference, and it looks like Eric W. Davis was there as well, and I had trouble finding information about it at first, but I was able to dig up some references. Dr. Hal Puthoff is asked about Ning Li in the Q&A of his 2021 SCU AAP Conference Keynote.

<https://www.youtube.com/watch?v=PQ5Dobxw8c&t=4312s>

Here is a transcript of what he said:

QUESTION: Did you ever get a chance to read, and if so do you have any thoughts on Ning Li's 1993 paper on "Gravitoelectric-electric coupling via superconductivity"?

ANSWER: Hal Puthoff: Well, I certainly read <em>all</em> of her papers. I also participated in the [2003] MITRE [Gravitational-Wave] Conference where she made a major presentation. And... [pause] Originally, I thought, you know, she may really be on to something. But the fact that it hasn't particularly gone anywhere, and some of the critiques that have been published from a scientific viewpoint I found kind of compelling. So it's definitely in the gray box on the shelf. Same with the Podkletnov results from Russia.

Ning Li (physicist)

[https://en.wikipedia.org/wiki/Ning\\_Li\\_\(physicist\)](https://en.wikipedia.org/wiki/Ning_Li_(physicist))

A couple of papers were mentioned:

Torr, D. G., & Li, N. (1993). Gravitoelectric-electric coupling via superconductivity. Foundations of Physics Letters, 6(4), 371–383. <https://doi.org/10.1007/bf00665654>  
FULL TEXT LINK: <https://sci-hub.se/10.1007/BF00665654>

### Contributors

 Keith Basterfield

 Pauline Wilson

### Blog Archive

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FLERE OPLYSNINGER OK

Hal mentions that he was at the Mitre Gravitational Wave Conference, which happened in 2003.

### 2003 conference

After I did my whole research that I'm about to pass along to you for you to digest and potentially pass along as a blog post, then I discovered your 2019 post on Ning Li, which is very, very comprehensive. However, your timeline is missing her 2003 paper, which Hal mentioned -- in part because the 2003 MITRE conference is somewhat obscure and hard to track down as the Conference Proceedings don't appear to have been publicly published by MITRE, although they may be available via FOIA.

So here's my reconstruction of the 2003 MITRE Gravity Wave conference from what I could find. Feel free to use it as you see fit and I'm happy to be attributed or not, and just want to make this information a bit easier for the UFO community to track down, and your blog posts seemed like a good outlet for that.

### Proceedings of the conference

A citation that I've found is the Proceedings of the Gravitational-Wave Conference, edited by P. Murad and R Baker, The MITRE Corporation, Mclean, Virginia, May 6-9, 2003, but a full copy does not appear anywhere online.

A best accounting of the ~25 papers presented there in 2003 [HFGW-03-101 to HFGW-03-125] can be pieced together from this reference: <http://www.gravwave.com/pdf/HFGW%20References.pdf> [and is shown down below]

Hal mentioned Ning's 2003 paper that she presented at MITRE, which was:  
Ning Li (2003), "Measurability of AC gravity fields," paper HFGW-03-106, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

Here's an abstract of Li's "Measurability of AC gravity fields," paper  
[https://web.archive.org/web/20150329013606/https://www.thelivingmoon.com/91\\_PDF\\_Database/Gravity\\_Related/106-Ning-Li-Prepub.pdf](https://web.archive.org/web/20150329013606/https://www.thelivingmoon.com/91_PDF_Database/Gravity_Related/106-Ning-Li-Prepub.pdf)

### Eric Davis

Eric Davis' Website provides a bit more context for the 2003 MITRE gathering as his participation on behalf of the Defense Intelligence Agency & National Security Space Office: Int'l High-Frequency Gravitational Waves Working Group, Gravitational Wave Conference, MITRE Corp., McLean, VA. via <https://earthtech.org/pubs/davis/>

### Robert M. L. Baker Jr.

Robert M. L. Baker Jr. was interviewed about the 2003 MITRE gathering, and this is what he had to say:

[QUESTION] Robert, I understand that there are literally dozens of physicists & engineers doing research on High Frequency Gravitational Waves, and the 2003 Mitre HFGW conference was a pivotal first event in terms of bringing them together as a community. Can you describe this for me a bit?

[ANSWER] The MITRE conference was a crucial first step in bringing scientists together to discuss HFGWs from both the perspectives of theoretical physicists and practical engineers and included scientists from all over the world.

Interestingly though, scientists from China who were not able to attend the event became some of the biggest proponents of HFGW research and use the MITRE papers as background for their research.

The community that took shape at the MITRE Conference later evolved into STAIF Section-F, and this was due entirely to the tireless efforts of Paul Murad and Tony Robertson. STAIF proved to be an excellent forum for the presentation and discussion of new concepts in gravitational science.

<https://medium.com/discourse/do-high-frequency-gravitational-waves-explain-li-podkletnovs-experimental-results-5d9f9560e1a6>

### Presentations at the Conference

I was able to piece together who presented at the 2003 MITRE Gravitational Wave Conference from this reference document from Baker's GravWav LLC from this reference: <http://www.gravwave.com/pdf/HFGW%20References.pdf>

- ▶ 2012 (105)
- ▶ 2011 (150)
- ▶ 2010 (163)
- ▶ 2009 (51)

### Labels

AARO

AASAP

AATIP

AAWSA

AAWSAP

Abductions

Academic

Aerospace companies

Angel hair

ATP

Australian Government files.

Australian periodicals

Australian websites

BAASS

BAASS; AAWSAP

Balwyn

Bigelow

Bob McGwier

Canada

Case reports

Cold case investigation

Congressional Hearings

Contactees

Cosnsciousness

Crop formations

Crowflight

Current Australian UAP reports

Davis/Wilson documents

Disclosure

Early Australian UFO history

electroponic sounds

Enigma Labs

Exopolitics

Exopsychology

False awakening; hypnagogic imagery

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Heinz Dehnen and Fernando Romero-Borja (2003), "Generation of GHz – THz High-Frequency Gravitational Waves in the laboratory," paper HFGW-03-102, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-103

Chincarini and Gianluca Gemme (2003), "Micro-wave based High-Frequency Gravitational Wave detector," paper HFGW-03-103, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-104

Gary V. Stephenson (2003), "The application of High-Frequency Gravitational Waves (HFGW) to communications," paper HFGW-03-104, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-105

Pankaj S. Joshie (2003), "Possible celestial sources of HFGW 'noise': gravitational collapse of massive stars," paper HFGW-03-105, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-106

Ning Li (2003), "Measurability of AC gravity fields," paper HFGW-03-106, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-107

Giorgio Fontana and Robert M. L. Baker, Jr. (2003), "The high-temperature superconductor (HTSC) gravitational laser (GASER)," paper HFGW-03-107, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-108

Fang-Yu Li, Meng-Xi Tang, and Dong-Ping Shi (2003), "Electromagnetic response for High-Frequency Gravitational Waves in the GHz to THz band," paper HFGW-03-108, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-109

Melvin A. Lewis (2003), "Gravitational waves for voice and data communication," paper HFGW-03-109, Gravitational-Wave Conference, The MITRE Corporation, May 6-9

HFGW-03-110

Marc G. Millis (2003), "NASA breakthrough propulsion physics project," paper HFGW-03-110, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-111

Giorgio Fontana (2003), "Gravitational radiation applied to space travel," paper HFGW-03-111, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-112

M. Portilla (2003), "Generation of HFGW by irradiating a multidielctric film," paper HFGW-03-112, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-113

Valentin N. Rudenko (2003), "Optimization of parameters of a coupled generator-receiver for a gravitational Hertz experiment," paper HFGW-03-113, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-114

Paul A. Murad and Robert M. L. Baker, Jr. (2003), "Gravity with a spin: Angular momentum in a gravitational-wave field," paper HFGW-03-114, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-115

Nikolai N. Gorkavyi (2003), "Generation of gravitational waves as a key factor for the origin and dynamics of the Universe," paper HFGW-03-115, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-116

Glen A. Robertson (2003), "Analysis of the impulse experiment using the electromagnetic analog of gravitational waves," paper HFGW-03-116, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-117

Robert M. L. Baker, Jr. (2003), "Generation of High-Frequency Gravitational Waves (HFGW) by

High Frequency Gravitational Waves

Fragments

French research

Garry Nolan

HIBAL

Hynek

hypnagogic imagery

Intelligence agencies

Investigation reports

James E McDonald

Jenny Randles

Kit Green

M

Mark Pilkington

MI5

MI6

migraine

Mitchell

Monthly Australian reports roundup

NASA

National Science Foundation

New book alert

New Zealand UFO files

New Zealand; Disclosure

NIDS

Niemtzow

Nimitz 2004

North West Cape incident

NSA documents

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Pasulka

Physical evidence

Pre 1947

Project Moon Dust

Project Moondust

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HFGW-03-119

Leonid P. Grishchuk (2003), "Electromagnetic generators and detectors of gravitational waves," paper HFGW-03-119, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-120

Robert M. L. Baker, Jr. (2003), "Application of High-Frequency Gravitational Waves to imaging," paper HFGW-03-120, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-121

George D. Hathaway (2003), "Force beam and gravity modification experiments: an engineer's perspective," paper HFGW-03-121, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-122

H. David Froning, Jr. and Terence W. Barrett (2003), "Investigation of specially conditioned electromagnetic fields for High-Frequency Gravitational Wave generation," paper HFGW-03-122, Gravitational-Wave Conference, The MITRE Corporation, May 6-9

HFGW-03-123

Robert E. Becker (2003), "A gravitational archipelago," paper HFGW-03-123, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-124

Harold E. Puthoff and Michael Ibison (2003), "Polarizable vacuum 'Metric Engineering' approach to GR type effects," paper HFGW-03-124, Gravitational Wave Conference, The MITRE Corporation, May 6-9.

HFGW-03-125

Eric W. Davis (2003), "Laboratory generation of high-frequency gravitons via quantization of the coupled Maxwell-Einstein fields," paper HFGW-03-125, Gravitational-Wave Conference, The MITRE Corporation, May 6-9.

### 2008 MITRE report

I came across another 2008 report from MITRE on HFGW that's cited in the DIRD on "High-Frequency Gravitational Wave Communications"

[https://documents2.theblackvault.com/documents/dia/AAWSAP-DIRDS/DIRD\\_21-DIRD\\_High-Frequency\\_Gravitational\\_Wave\\_Communications.pdf](https://documents2.theblackvault.com/documents/dia/AAWSAP-DIRDS/DIRD_21-DIRD_High-Frequency_Gravitational_Wave_Communications.pdf)

Eardley, et al. (2008) "High Frequency Gravitational Waves," JSR-08-506, October, the JASON Defense Science Advisory Panel and prepared for the Office of the Director of National Intelligence.

Document is at <https://irp.fas.org/agency/dod/jason/gravwaves.pdf>

Technical report from JASON, The MITRE Corporation concludes: "Previous analysis of the Li-Baker detector concept is incorrect by many orders of magnitude" -- That's a different Li. (Dr. Fangyu Li of Chongqing University, China.)

"The subject of High Frequency Gravitational Waves (HFGW) has attracted considerable interest in the US government over the last few years. In September 2007, HFGW came to the attention of the National MASINT Committee of ODNI; in turn, staff at this committee asked JASON to review both the underlying science and technology of HFGW, and their implications for national security. JASON hosted briefings during June 17-18, 2008 from individuals both inside and outside the US government, and also collected about a thousand pages of printed or electronic material. This report gives our conclusions and supporting analyses, after having considered this input. Classified topics and conclusions are presented in the accompanying classified appendix."

### Acknowledgement

Thank you to Kent for his hard work on the above, and for sharing this with the UAP research community.

### Update 4 June 2022

A 2 June 2022 tweet by Mik M @hlywdufo alerted me to a copy of a 36 page booklet titled "Gravitational-Wave Conference - International High-Frequency Gravity Wave Working Group - Authors and Speakers" for the May 6-9 2003 MITRE Corporation event. Included in the booklet was a bio of Ning Li and a synopsis of her paper.

Signings

Sleep paralysis

Socorro

Sol Foundation

Stratospheric balloons

TTSA

UAPTF

Ubatuba

UFO Magazines

UK UAP files

Valentich

Valerie Ransone

Vallee

Westall

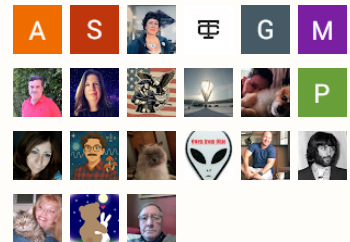
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Dr. Li was an electronics engineer with the Railway Ministry from 1968 to 1978, a lecturer and a research assistant at Peking University from 1978 to 1981, an Assistant Professor of Physics at Beijing Polytechnic Institute from 1981 to 1984. She became a Postdoctoral Research Associate in May 1988 at RPI, a Senior Research Associate in 1989, a Research Scientist in 1991, a Senior Research Scientist in 1995 at the University of Alabama in Huntsville.

After being offered the Associate Professorship from the Physics Department of UAH in 1996, Dr. Li became the Principle Investigator of the Delta-g project of NASA in 1996. She became the Director of the Superconductivity and Gravity Laboratory from 1999 to 2000. She became President and CEO of AC Gravity LLC in 2000. Dr. Li became the Principle Investigator of the Project of Gravitoelectromagnetic superconductivity experiment of the US Army in 2001.

She has thirty six years of hands-on research experience involving heavy ion beam-probe techniques in tokamak measurement at RPI from 1984 to 1988; in designing three-Level night vision goggle at Beijing Polytechnic Institute from 1978 to 1984; designing auto control signal system and semiconductor integral electric circuits at the Chinese Railway Ministry from 1968 to 1978. Chief Engineer in Semiconductor manufactory from 1965 to 1968. She taught Statistical Physics and Methods in Mathematical Physics at Peking University from 1979 to 1981; Plasma Physics I & II, Electrodynamics and Quantum Mechanism at Beijing Polytechnic Institute from 1981 to 1984.

Her principal fields of research have been in Gravitation, Superconductivity, Semiconductor, Solid Physics, Optics Physics, Computer Science, Automatic Signal Control System, Space Plasma Physics, and Fusion Plasma Physics, particularly the computerized turbulence data analysis by using new statistical analysis techniques that she developed for her Ph.D. thesis. She has worked on the experimental and theoretical study of the gravitational fields and superconductivity from 1989 to the present. Her research in gravity and superconductivity has been recognized by the international science community. Dr Li's original development of the gyro magnetically produced gravitomagnetic field was published in Phys. Rev. D in 1991, in Phys. Rev. B in 1992, and in Found. Phys. in 1993.

Abstract

Measurability of AC Gravity Fields (paper HFGW-03-106) by Ning Li. † In the Lorentz gauge, the gravitational-generalized Lienard-Wiechart retarded potential shows that there are two types of gravitational fields. One is DC gravity, which is local and static such as the Earth's gravity. Another is AC gravity, which is radiation and can transport far away without energy decay such as gravitational waves (GW). The possibility of generating and measuring an AC gravitational field is explored by calculation of the gravitational radiation fields excited by the induced nuclear angular dipole moments in a macroscopic quantum High-Tc superconductivity system. It is found that the effective AC gravity field at a Cu nucleus arising from the magnetic dipole effect is roughly 10-2 mGs. The practical application of the system for HFGW generation, detection, and application in the g - range is discussed.

By [Keith Basterfield](#) at [June 02, 2022](#)



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### Academic funding for UAP research

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[Valentich files released by Australian Government](#)

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## CASE #642

Playwright Render

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<https://ufos-scientificresearch.blogspot.com/2022/06/dr-ning-li-and-her-anti-gravity.html>

## DOMAIN

ufos-scientificresearch.blogspot.com

## CASE ID

#642 of 924

## CONTEXT FROM ORIGINAL DOCUMENT

(PUBLIC DOMAIN) - 22 March 2003 — Stanford professor Peter Sturrock confides to Jacques Vallee that he believes Hal Puthoff's work on zero point energy is full of "circular arguments." Sturrock mentions Puthoff points to the significance of the ratio  $e/m$  but failed to see that he's also redefining mass. Sturrock says he's sent Bernard Haisch at Lockheed Martin six questions like that but Haisch never responded. Vallee says he fails to understand Puthoff's argument as well.

(PUBLIC DOMAIN) - 3 May 2003 — Kit Green tells Jacques Vallee that a rock from Socorro, NM that allegedly had traces of metal abrasions from the landing gear of a UFO was analyzed at NASA-Goddard as early as 1964. The metal consisted of zinc and iron in an unusual ratio. Green says the samples arrived in CIA possession in 1982 and re-analyzed at Los Alamos, to which it was concluded it was an aluminum-titanium alloy not from Earth. In 1992, Green used resources at General Motors (while serving as executive director of materials research) to study the sample. Green's work at GM corroborated the material was titanium and aluminum.

(PUBLIC DOMAIN) - 6 May 2003 — MITRE provides conference for several scientists to showcase their HFGW research including Robert M. Baker, Heinz Dehnen, Fernando Romero-Borja, Chincarini and Gianluca Gemme, Gary V Stephenson, Pankaj S Josh, Ning Li, Giorgio Fontana, Fang-Yu Li, Meng-Xi Tang, Dong-Ping She, Melvin A Lewis, Marc G Mills, M Portilla, Valentin N Rudenko, Paul A Murray, Nikolai N Gorkavyi, Glen A Robertson, Roger Clive Woods, Leonid P Grishchuk, George D Hathaway, H David Froning Jr, Terence W Barrett, Hal Puthoff, Michael Bison and Eric W Davis.