

# Gravitational-Wave Conference

(International High-Frequency Gravitational Waves (HFGW)  
Working Group)

## MEETING SCHEDULE

Paul A. Murad and Robert M. L. Baker, Jr.  
Co-Chairmen  
Dr. Ning Li, Honorary Co-Chairwoman

*Tuesday, May 6, 2003*

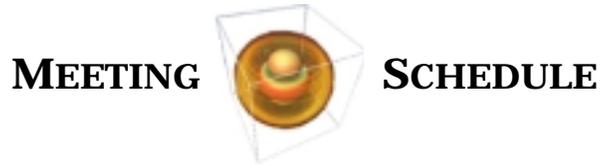
Dr. Robert M. L. Baker, Jr., Session Chairman

- 7:30 to 8:00            Tuesday presenters' get-together
- 8:00 to 8:30            ~~ Registration ~~
- 8:30 to 8:45            Welcome, Preliminaries --- **Paul Murad**
- 8:45 to 9:00            Tribute to Dr. Robert L. Forward --- **Dr. Robert Baker**
- 9:00 to 9:30            “*What Poincaré and Einstein Have Wrought: a Modern, Practical Application of the General Theory of Relativity (The story of high-frequency gravitational waves)*” ---  
**Dr. Robert Baker** (paper HFGW-03-101)

### HFGW Applications: -- Gravity Wave Transmitters and Detectors

- 9:30 to 10:00            “*Optimization of Parameters of a Coupled Generator-Receiver for a Gravitational Hertz Experiment*” ---  
**Dr. Valentin N. Rudenko** (paper HFGW-03-113)
- 10:00 to 10:15            ~~ Morning break ~~

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MEETING

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- 10:15 to 10:45      “*Generation of High-Frequency Gravitational Waves (HFGW) by Irradiating an Inhomogeneous Dielectric in a Strong Stationary Magnetic Field*” ---  
**Drs. Miguel Portilla and Ramon Lapiedra** (paper HFGW-03-112)
- 10:45 to 11:15      “*Investigations of Specially Conditioned Electromagnetic Fields for High Frequency Gravitational Wave Generation*”--- **Mr. H. David Froning, jr. and Dr. Terence Barrett** (paper HFGW-03-122)
- 11:45 to 1:00      ~~ Lunch ~~
- 1:00 to 1:30      “*Electromagnetic Generators and Detectors of Gravitational Waves*”--- **Dr. L. P. Grischuk** (paper HFGW-03-119)
- 1:30 to 2:00      “*Gravitation and High-Temperature Superconductors: the Current Position*”-- **Dr. R. Clive Woods** (paper HFGW-03-118)
- 2:00 to 2:30      “*Electromagnetic Response for a High-Frequency Gravitational Waves in the GHz to THz Band*”--- **Drs. Fang-Yu Li, Meng-Xi Tang, and Dong-Ping Shi** (paper HFGW-03-108) to be presented by **Dr. Ning Li**.
- 2:30 to 2:45      ~~ Afternoon Break ~~
- 2:45 to 3:15      “*Microwave-Based, High-Frequency Gravitational Wave Detector*” --- **Dotts. Andrea Chincarini and Gianluca Gemme** (paper HFGW-03-103)
- 3:15 to 3:45      “*Generation of GHz - THz Band, High-Frequency Gravitational Waves in the Laboratory*” --- **Drs. Heinz Dehnen and Fernando Romero-Borja** (paper HFGW-03-102)
- 3:45 to 4:30      “Panel: *Where do we go from here with transmitters and detectors?*”
- 6:00 to 8:00      ~~ Reception and Mixer ~~

## Gravitational-Wave Conference

MEETING



SCHEDULE

*Wednesday, May 7, 2003*

Paul A. Murad, Session Chairman

- 8:00 to 9:00            Wednesday presenters' get-together
- 9:00 to 9:45            *"Generation of High-Frequency Gravitational Waves (HFGW) by Means of an Array of Micro- and Nano-Devices"--- Dr. R. M. L. Baker, Jr.* (paper HFGW-03-117)
- 9:45 to 10:15          *"Measurability of AC Gravity Fields"--- Dr. Ning Li* (paper HFGW-03-106)
- 10:15 to 10:30        *~~ Morning Break ~~*

### HFGW Applications: -- Superconductivity Investigations

- 10:30 to 11:00        *"Force Beam and Gravity Modification Experiments: An Engineer's Perspective" --- Mr. George D. Hathaway* (paper HFGW-03-121)
- 11:00 to 11:30        *"Analysis of the Impulse Experiment Using the Electromagnetic Analog of Gravitational Waves" --- Mr. Glen A. Robertson* (paper HFGW-03-116)
- 11:30 to 1:00                *~~ Lunch ~~*
- 1:00 to 1:30            *"The High-Temperature Superconductor (HTSC) Gravitational Laser (GASER)" --- Dott. Giorgio Fontana and Dr. R. M. L. Baker, Jr.* (paper HFGW-03-107)

### HFGW Applications – Communication

- 1:30 to 2:00            *"Gravitational Waves for Voice and Data Communication" --- Mr. Melvin A. Lewis* (paper HFGW-03-109)
- 2:00 to 2:15                *~~ Afternoon Break ~~*

## Gravitational-Wave Conference

MEETING



SCHEDULE

2:15 to 2:45

*“The Application of High-Frequency Gravitational Waves (HFGW) to Communication”* --- **Mr. G.V. Stephenson** (paper HFGW-03-104)

2:45 to 3:15

*“Application of High-Frequency Gravitational Waves to Imaging”* --- **Dr. Robert M. L. Baker, Jr.** (HFGW-03-120)

3:15 to 4:15

**Panel Session:** *“How far can we take work on superconductivity and how much of an impact does it have on our understanding of Gravitational wave phenomenon?”*

## Gravitational-Wave Conference

MEETING



SCHEDULE

*Thursday, May 8, 2003*

Dr. Ning Li, Session Chairwoman

8:00 to 9:00            Wednesday presenters' get-together

### HFGW Applications: -- Astrophysics

9:00 to 9:30            *"Generation of Gravitational Waves (HFGW) as a Key Factor for the Origin and Dynamics of the Universe" ---*  
**Dr. Nikolai N. Gorkavyi** (paper HFGW-03-115)

9:30 to 10:00            *"Possible Celestial Sources of HFGW 'noise': Gravitational Collapse of Massive Stars" ---* **Dr. Pankaj S. Joshi** (paper HFGW-03-105)

10:00 to 10:15            ~~ Morning break ~~

### HFGW Applications: -- Propulsion

10:15 to 10:45            *"NASA Breakthrough Propulsion Physics Project" ---*  
**Mr. Marc Millis** (paper HFGW-03-110)

10:45 to 11:15            *"Gravitational Radiation Applied to Space Travel," ---* **Dott. Giorgio Fontana** (paper HFGW-03-111)

11:15 to 12:30            ~~ Lunch ~~

12:30 to 1:00            "A Gravitational Archipelago," --- **Mr. Robert Becker** (paper HFGW-03-123)

1:00 to 1:30            *"Polarizable Vacuum 'Metric Engineering' Approach to GR-Type Effects" ---* **Dr. H. E. Puthoff** and **Dr. Michael Ibison** (paper HFGW-03-124)

## Gravitational-Wave Conference

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1:30 to 2:00

*“Angular Momentum and Other Anomalies in a Gravitational Wave Field”* --- **Paul A. Murad** and **R. M. L. Baker, Jr.** (paper HFGW-03-114)

2:00 to 2:15

~~ Afternoon break ~~

2:15 to 3:15

**Panel Session:** *“Applications and their Implementation. Quo Vadis, what is the applicability of future technical meetings, agendas, invitees?”*

## Gravitational-Wave Conference

**MEETING**



**SCHEDULE**

*Friday, May 9, 2003*

US Government-only Session (open-ended)

~~ Adjourn ~~