S&V Samford December Electroacoustic Activity
- The 1ST GREATER BAY AREA INTERNATIONAL ACOUSTICS SYMPOSIUM (GBA-IAS 2019)

GBA-IAS 2019 take place at Shenzhen during 16th - 18th Dec, 2019.
Theme: Perception and Audio
Organizer: The Hong Kong University of Science and Technology
South China University of Technology
Venue: Hong Kong University of Science & Technology Shenzhen Research Institute
Registration Fee: Standard USD 400, Full-time Students USD 100

S&V Samford Electroacoustic Activity
GRAS Sales Meeting and Training

S&V Samford participated GRAS sales meeting and training in Bangkok. Want to know more about what we learn about the latest Improved Ear simulators and NVH microphone? Contact us!

Customer Visits
If you need our visit, please contact us at svsales@svsamford.com.

About Us
S&V Samford Ltd.
www.svsamford.com

We are devoted to provide innovative and quality solutions for Customers with interest in Sound and Vibration, Condition monitoring, Electro-Acoustics: R&D/Production line QC/QA testing, and Mechanical measurements - Force Torque, RPM, etc. With a team of passionate professionals, we provide dedicated support and continue education to our customers.

Contact:
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Fax: (852) 2833 9913

Monthly Feature Products
- GRAS
  Improved Ear Simulators for Headphone Testing
- SINUS
  NOISEPADTM Acoustics & Vibration Analyzer
  SINUS- Sound Power
GRAS
Improved Ear Simulators for Headphone Testing

- IEC 60318-4 compatible
- Built-in 1/4" microphone
- The 13.5kHz resonance damped by approximately 14 dB
  - resonance damping effective up to 50kHz
- From 100 Hz to 10 kHz: IEC 60318-4
  - From 10kHz to 20kHz within ±2.2 dB
  - From 20kHz to 50kHz within ±3.2 dB
- Noise floor: 44dB(A)

GRAS Electroacoustic Products
Improved Ear Simulators for Headphones Testing
Evolution of the IEC 60318-4 Ear Simulator

For more than three decades, the IEC 60318-4 ear simulator has been the recognized industry standard for testing audio transducers with a realistic simulation of the acoustical load presented by the human ear. However, its undamped resonance at 13.5kHz makes it difficult to use for high-frequency testing. Therefore, GRAS has introduced two improved variants of the IEC 60318-4 ear simulator. They retain a firm footing in the standard but improve the ability to measure at high frequencies.

The High-Frequency Ear Simulator (GRAS RA0401/02)
The RA0401 – Externally polarized
The RA0402 – Prepolarized
The RA0401 has a damping system that attenuates the half-wave resonance at 13.5 kHz and thus extends the useful frequency range to 20 kHz. It uses a ½" microphone.

NEW! The Hi-Res Ear Simulator (GRAS RA0403/04)
The RA0403 also has a damping system that attenuates the length-related resonances above 10 kHz, but the use of a ¼" microphone extends the useful frequency range to 50 kHz and beyond.

Explore the benefits
Our new ear simulators build on industry standards - and improve upon them in important ways. They introduce major improvements: High-frequency capability and improved repeatability. When combined with our anthropometric pinna, improved collapsibility, fit and seal are added benefits.

- Drop-in replacement for 60318-4 ear simulator in any test setup
- Improved distortion measurements
- Improved repeatability
- Human-like load up to 10 kHz
- Extended and stable frequency response
- IEC 60318-4 compliant / compatible

About G.R.A.S
http://www.gras.dk/

Establishment in 1994. G.R.A.S. have been 100% dedicated to developing and manufacturing high quality measurement microphones and related acoustic equipment.

G.R.A.S founded by the Danish acoustics pioneer Gunnar Rasmussen who for more than 60 years has contributed to the world of sound and vibration with his unique ideas and designs.
NOISEPAD™ Acoustics & Vibration Analyzer

**NoisePAD analyzer by SINUS Messtechnik GmbH**

*NoisePAD is a new class of 4-Channel real-time analyzer for noise & vibration. The combination of robust 8” tablet and analyzer meets the standard MIL 810.*

The **SAMURAI™** software offers even in the base version per channel:

- **Sound level meter**: Class 1 according to IEC 6162  
- **Frequency analyzer**: IEC 61260 third-octave + FFT analyzer  
- **Signal recorder**: Records audio signals up to 80kHz

For vibration users we offer the new **Samurai 3.0 Vibro Suite as alternative.**

**SAMURAI options:**

- Building Acoustics  
- Easy Listening  
- GPS synchronization  
- Multi Generator  
- Post Processing  
- Room Acoustics  
- TCP/IP Interface  
- Vibration Meter  
- Building Vibration  
- Envelope Analysis  
- Human Vibration Analyzer  
- NoiseCam Video  
- Radar Speed Measurement  
- Sound Intensity  
- Sound Power  
- Tonality  
- Transfer FRF  
- Virtual Tacho  
- Weather Station

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Input: 4 Channels 24bit @51.2kHz, ICP/ direct, 2 Trigger/Tacho Channels
Output: 1 output channel
Tablet PC: 8” industrial tablet, ATOM Cherrytrail, 4GB Ram, 128GB SSD, Win 10
Mechanics: IP 67, MIL 810, temperature -20 °C … +50 °C
Autonomy: 10 hours
Interface: USB, SD, WiFi, 3G, GPS, Bluetooth, 2x camera

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**About SINUS**

[https://www.sinus-leipzig.de/en/](https://www.sinus-leipzig.de/en/)

**SINUS Messtechnik GmbH** was founded 1990 and stands for robust, portable and flexible multi-channel measurement systems for the sound and vibration analysis.

Their corporate philosophy of modular concepts and open systems enables us to offer an impressive product portfolio on a high technical level at fair prices, even as a small company.

The Soundbook_MK2 family, in particular, combines the new 24-bit Apollo technology and the virtually indestructible Panasonic CF-19 Toughbook combined in a unique solution which allows extremely advanced real-time field analyses.
**SINUS- Sound Power**

**SINUS offer for sound power applications includes sound level meters, multi-channel instruments, microphones, comprehensive accessories and evaluation software for measurement of sound power complying with the national and international ISO 3741, ISO3745, ISO 3746 and ISO 9614-1/2 standard.**

The SAMURAI option "SOUND POWER" allows the standard-compliant determination of the sound power levels emitted by sound sources based on sound pressure measurements according to ISO 3744, ISO 3745 and ISO 3746.

The SAMURAI option "live SOUND POWER" enables the real-time display of sound power levels based on parallel sound level measurements at the driver's ear and the determination of sound power levels emitted by sound sources based on sound pressure measurements using the reverberation chamber method according to ISO 3741.

The SAMURAI option "SOUND INTENSITY 2" provides the standard-compliant sound power analysis of sound sources based on sound intensity measurements according to ISO 9614 Part 1 (Measurement at discrete points) and Part 2 (Measurement with continuous sampling).

**SAMURAI 2.0**

SAMURAI Stands for SINUS Acoustic multi-channel universal real-time analysis instruments, which is a universal software package for noise and vibration measurements.

It contains 2, 4 or 8-channel sound level meters conforming to different IEC Standards.

Because of the high system performance, the user benefits from a wide range of functions simultaneously available on all measurement channels. SAMURAI features excellent display capabilities not only during the measurements but also during the post-processing of the measurement results. **Read More**

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Related Products:
- Soundbook_MK2
- Soundbook Expander
- SAMURAI
- Data Collector (SAMURAI Option)
- Sound Power ISO 3744/45/4(SAMURAI Option)
- Sound Power ISO 9614(SAMURAI Option)