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| **Session Title:** | Advances in Compound Semiconductors for Military Applications |
| **Session Abstract (250 words):** | Compound semiconductors can offer significant benefits in performance and power for some applications. For example, most cell phones use  compound semiconductors as the power amplifier and in the front-end despite gains in performance from digital semiconductor devices. The reasons are inherent to the materials  themselves. This session is focused on recent advances in those technologies and will explore the state-of-art in materials, devices, and circuits from the frequency/bandwidth  perspective. |

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| **Session Champion:** | Mark Rosker |
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| **Session Organizer:** | Daniel Radack |
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| **Session Chair:** | John Albrecht |
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| **Session Co-Chair:** | Mark Rosker |
| **Phone:** |  |
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|  | **Invited Paper Title** | **Author** | **Affiliation** |
| **1** | Advances in CS Materials and Devices for Low Frequency | Umesh Mishra | UCSB |
| **2** | Advances in CS Materials and Devices for Microwave Applications |  | Cree |
| **3** | Wide Bandgao NAterials and Devices for Wide Bandwidth Applications | Paul Saunier | TriQuint |
| **4** | High Frequency Applications (mmwave and above) |  | HRL |

Paper titles are not final at this time.

Other Possible papers:

**Instructions**

This form is designed to streamline the session organization and paper selection process for the GOMACTech conference. Each Technical Program Committee (TPC) member who is interested in serving as a session champion should complete this form and send an electronic copy to the Technical Program Chair *as early in the process as possible*.

Paper sessions typically are allotted four papers and 90 minutes, with each paper running 20 minutes and an additional 10 minutes of slack time for extra questions, unanticipated delays with computer hardware, etc. Linked double sessions are possible under some circumstances, as are special double-length invited papers replacing two regular papers.

**Roles and Responsibilities for Tech Session Formation and Implementation**

**Champion**

* Member of Steering Committee and/or Technical Program Committee (TPC)
* Knowledgeable of players in potential session technical area
* Identifies and recruits session organizer
* Works with and guides session organizer to define overall scope of session, select session Chair and Co-Chair
* Responsible to TPC Chair
* Reports session status to General Chair and TPC Chair

**Organizer**

* Identifies and recruits session Chair and Co-Chair
* Knowledgeable of field
* **Designs session to provide overview of current state of art**
  + May elect to have any mix of solicited versus submitted abstracts
  + Identifies and solicits prospective abstracts for session
    - Current trend is toward “solicited” papers
  + **Invited papers will be reviewed by the TPC and may be rejected!**
    - Clearly state to invitee abstract will be reviewed by Technical Program Committee (TPC)
    - Abstract must be rated acceptable by TPC to be presented as paper at Conference
* Coordinates with session chair abstract reviews and final materials to assure highest session quality
* Assures abstracts, full papers and presentation materials are received in a timely manner to meet conference deadlines

**Session Chair**

* Selected by Session Organizer
* Structures session in concert with Co-Chair
* Introduces speakers
* Monitors time during each presentation
* Facilitates Question and Answer Period
* Suggested Assignments:
  + Chair: Government
  + Co-Chair: Non-Government

**Session Co-Chair**

* Selected by Session Organizer
* Assists Session Chair as requested

**GOMACTech 2010 Executive Committee Contact Information**

* General Chair: Chris Lesniak, [christopher.lesniak@wpafb@af.mil](mailto:christopher.lesniak@wpafb@af.mil), 937-255-3802 x3488
* Technical Program Chair: Local Arrangements Chair: John Franco, [john.franco@dtra.mil](mailto:john.franco@dtra.mil), 703-325-7563
* Conference Management: Ralph Nadell, rnadell@pcm411.com, 212-460-8090 x203