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Paper ID No: 0000

## HILTON HEAD 2020 WORKSHOP SAMPLE ABSTRACT AND INSTRUCTIONS FOR ABSTRACT PREPARATION

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The seventeenth in the series of Hilton Head Workshops on the science and technology of solid-state sensors, actuators, and microsystems will be held on May 31 – June 4, 2020 on Hilton Head Island, South Carolina. Authors are invited to contribute original abstracts based on three (3) groups of topic areas: Physical Sensors, Actuators, or Systems (P), Chemical or Biological Sensors, Actuators or Systems (C), or Technology, Materials, Packaging, and CAD (T).

Submitted abstracts should be two-pages: one text page and one page of figures and tables on US Standard (8.5 x 11 inches). The abstract reference number must appear on the upper right-hand corner of the first page of the abstract and the abstract requested topic category on the upper left. The first page must also include the complete text of the abstract, as well as the title, author list, and affiliations. The body of the abstract is limited to 600 words (excluding title, authors, references, and captions). The second page should contain any figures or tables. References may go on either page. All other style formatting is up to the authors.

The purpose of an Abstract submitted to Hilton Head 2020 is to tell the Technical Program Committee what new results you propose to present. Therefore, it is important within the first few sentences to state what your primary result is. It is also important to identify how the new work differs from previous work from your own group and from other groups, especially work presented at recent and upcoming international meetings. For example: "The fabrication process for the accelerometer was reported at MEMS 2019 [1], and an analysis of the new piezoresistor pattern which accomplishes the reduction in cross-axis sensitivity was reported at Transducers 2015 [2]. Our method differs from that of group X [3] in the specific method of temperature compensation we are using, and of group Y [4] in the geometry of the piezoresistor design and their placement within the structure."

After an introduction of the basic ideas and how the work relates to other work, present detailed descriptions of methods, device structures, and examples of specific results, whether experimental or theoretical. Figures and Tables can support these results. For example: "A schematic view of the Genomic DNA is shown in Figure 1, with a close-up detail of the PCR results and placement in Figure 2. A cross-section of the fabrication process is shown in Figure 3. Table I shows the simulations for specific device geometries using the analysis procedure in [2]." After presentation of results, it is useful to compare specific results with related work, and also to comment on the broader impact of the results.

Please make sure that all the figures/photographs are clearly visible. If the Technical Program Committee cannot clearly see and understand the role of these visual aids, it will be viewed negatively. Contributed papers will be considered for either oral or poster presentation unless the authors specifically request the poster session. Oral presentations will be allotted 20 minutes plus 5 minutes for discussion.

Papers presented at the Workshop will be published in a Technical Digest and will be limited to four (4) pages in length. The Technical Digest will be distributed in electronic format to participants at the Workshop, with one copy included in the registration fee. Authors are encouraged to expand their digest papers into full papers for separate publication in archival journals.

The deadline for abstract submission in PDF format to the Hilton Head 2020 website is **Tuesday, December 10, 2019**.

Word Count: 584

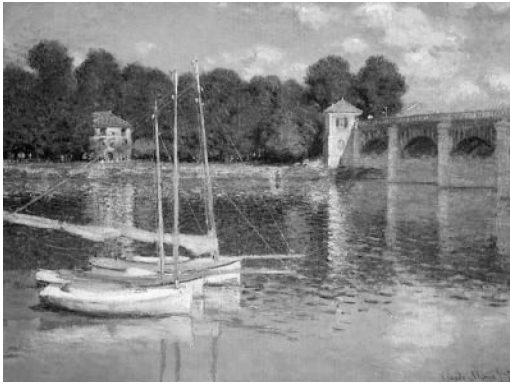


Figure 1: Reflections on corrugated liquid/gas interface, with obstacles, observed by Monet. Rendering with 300 dpi

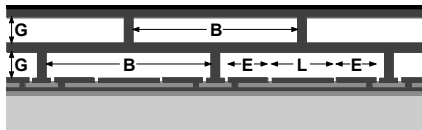


Figure 2. View of xxxxxxxxxxxx

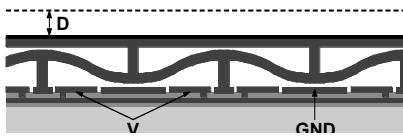


Figure 3. View of beam structure in xxxxxxxxxxxx

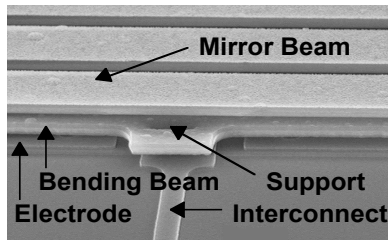


Figure 4. SEM of xxxxxxxxxxxx

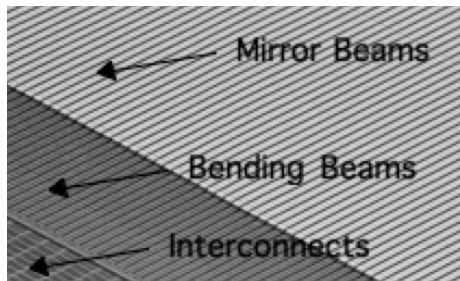
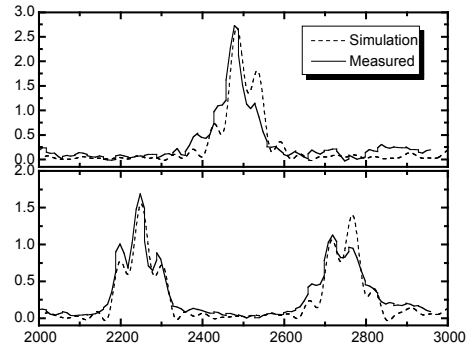


Table 1. Sample of a Table Format

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	Table Column Subhead	Subhead	Subhead
Copy	More table copy		

Figure 5. Spectral content of diffracted light from a programmed grating for single (upper) and double



(lower) band pass filters. The dashed lines are the simulated spectra while the solid lines are the measured spectra.

REFERENCES:

1. "Extending the travel range of analog-tuned electrostatic actuators," P. Renaud, E. S. Hung, Journal of Microelectromechanical Systems, **8**, 497 (1999).
2. "Synthetic Spectra: a Tool for Correlation Spectroscopy," M. B. Sinclair, M. A. Butler, A. J. Ricco, and S. D. Senturia, Applied Optics, **36**, 3342 (1997).
3. "Synthetic Infrared Spectra," M.B. Sinclair, M.A. Butler, S.H. Kravitz, W.J. Zubrzycki, and A.J. Ricco, Optics Letters, **22**, 1036 (1997)