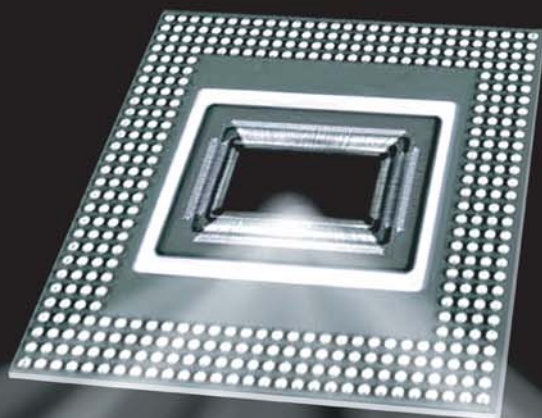




Ninth Annual
**High Performance
Embedded Computing Workshop**
20–22 September 2005
Presenter's Package

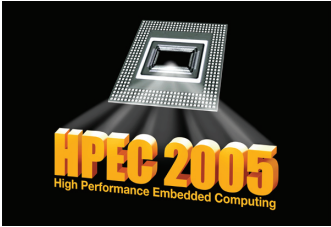


HPEC 2005
High Performance Embedded Computing

<http://www.ll.mit.edu/hpec>



LINCOLN LABORATORY
Massachusetts Institute of Technology



Ninth Annual High Performance Embedded Computing Workshop 20–22 September 2005

PRESENTER'S PACKAGE

Presentation Guidelines

Sample Slide

Author Deadline

Copyright Release

Instructions for Foreign National Visitors

Request for Foreign Visit Authorization

Disclosure Authorization Form (Public Domain Sessions)

Disclosure Authorization Form (Closed/Limited Sessions)

PRESENTATION GUIDELINES

The workshop sponsors and participants appreciate clear and legible presentations. In addition, the presentations themselves will constitute the published proceedings. Therefore, presenters are required to submit charts of the highest quality. Toward the goal of consistent quality and legibility, we ask that presenters adhere to the following guidelines when preparing their viewgraphs and posters.

VIEWGRAPHS AND POSTERS

Typeface

- Set regular text using a bold 20-point font. A bold sans serif font such as Arial is preferred for its readability in a large auditorium.
- Other sized fonts may be used as necessary, such as bold 28-point for titles, bold 18-point for sub-points, etc. However, do not use a font size smaller than 14 points and always use bold fonts.

Format

- Visually center all viewgraphs within a 9" by 7" area, with at least a 1/4-inch margin inside the frame.
- Orient the viewgraphs horizontally (landscape).
- Limit your viewgraphs to 10 lines of text. Wider comprehension is aided by succinct visuals.

Posters

- Total poster area: 4' tall by 6' wide. This space will be arranged as two 4' x 3' felt-covered boards placed side by side.

Lincoln Laboratory will provide pins or Velcro to facilitate mounting the poster panels on the felt-covered poster boards.

- Total available poster area: 3' 6" tall by 6' wide.

Note: Lincoln Laboratory will be providing a title banner that will consume the top six inches of the poster area with the poster title, name(s) of the author(s), and the author affiliation(s).

- Recommended poster panel size: 11" tall by 15" wide. Authors should enlarge 8.5" x 11" panels by 30% to arrive at the final 11" x 15" panels. The poster panels must be oriented horizontally (landscape).
- A single 4' x 3' board fits eight 8" x 11" poster panels or six 11" x 15" poster panels.
- Poster panels must be mounted on a firm background such as foam core.

PRESENTATION GUIDELINES (CONT.)

GRAPHICAL MATERIAL

Graphs and Tables

- Use 2-point rules for curves. Do not use line widths smaller than 1-point anywhere on graphs or tables.
- The same rules listed previously for fonts apply to text within all graphs and tables. It is recommended that axis labels and table headings be set with at least a 16-point font.

Images

- Ensure that all images such as photographs, artwork, etc., can be photocopied legibly. High contrast images are more easily reproduced.
- Ensure that all text appearing in the image is large and legible.

PRESENTATION FORMAT

- A professional projectionist will display viewgraphs on a large screen behind the speaker. Speakers are provided with a podium, microphone, laser pointer, and a queuing button for the projectionist.
- To assist the projectionist, electronic presentations should be in Microsoft PowerPoint. If you will be using hard-copy format, all viewgraphs should be placed within frames and clearly numbered.
- For non-viewgraph visuals, please contact Holly Musto/Joanne Zukowski at (781) 981-4842 to make arrangements. Electrical outlets and a 5' x 3' table can be provided for demonstrations. If you are planning a demonstration, please contact Holly Musto/Joanne Zukowski by 30 August 2005 so we can prepare the facility.

ADVANCE PROCEEDINGS

- For the Advance Proceedings, please submit all forms and release approvals by **30 August** and all presentations also by **30 August**. ***If materials are not received by 30 August, presentations will not be included in the Advance Proceedings.***

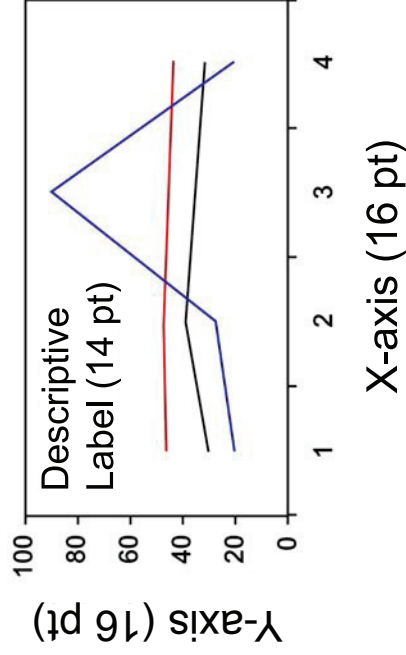
SAMPLE SLIDE (next page)



Title Size is Set in 28 Point

- The first level of type is set in 20 point
 - The second level of type is set in 18 point
- The third level of type is set in 16 point

- Graphics Examples



Table

16 pt		
14 pt		

AUTHOR DEADLINES

Please submit the following information and materials to:

Ms. Joanne Zukowski/Ms. Holly Musto
Attn: HPEC 2005
MIT Lincoln Laboratory
244 Wood Street, Room C-382
Lexington, MA 02420-9108
Voice: (781) 981-4842
Fax: (781) 981-2517
E-mail: hpec@ll.mit.edu

By 30 August 2005

- **Name of Presenter and Bio**
- **Electronic version** of the presentation viewgraphs or poster panels in Microsoft PowerPoint format
- **Disclosure Authorization Form for Public Domain Sessions** to publish the abstract in the Abstract Booklet and both the abstract and presentation/poster in the *Unclassified Proceedings* (one form for both the abstract and viewgraphs)
- **1 Copyright Release Form** for both the abstract and the presentation viewgraphs /poster panels
- **Disclosure Authorization Forms for Closed/Limited Sessions** to publish the Closed/Limited abstract and presentation viewgraphs/poster panels in the *Closed/Limited Proceedings* (separate forms for abstract and viewgraphs)

If the above information and materials are not received by these deadlines, the abstract and the presentation/poster cannot be included in either the Workshop Abstract Booklet or the Advance Proceedings.

COPYRIGHT RELEASE

Send completed form to:

Ms. Joanne Zukowski/Ms. Holly Musto
MIT Lincoln Laboratory
244 Wood Street / Room C-382
Lexington, MA 02420-9108
Tel: 781-981-4842 | Fax: 781-981-2517

Whereas MIT Lincoln Laboratory is the publisher of the Abstract Booklet and the Proceedings of the High Performance Embedded Computing 2005 (HPEC) Workshop, and the undersigned is the Author of an abstract and presentation/poster at that Workshop entitled:

Title: _____

The Author hereby grants permission to MIT Lincoln Laboratory to publish that abstract in the Abstract Booklet and the presentation/poster in the Proceedings. Said Abstract Booklet and Proceedings will be printed for limited distribution controlled by MIT Lincoln Laboratory. The Author hereby represents that the above granted permission is not in conflict with or a violation of any previously issued permissions or copyrights to that material. If previous copyrights have been granted, the Author attaches hereto permission of the copyright holder for this publication and the necessary information for credit lines.

The Author retains all rights to said material in accordance with U.S. Code Title 17, Copyrights, revised to 1 January 1978.

The Author shall receive no payment from MIT Lincoln Laboratory for use of this material.

If Author is an employee of the U.S. Government (including the military), please check one:

_____ This material was prepared as part of my official duties for the U.S. Government.

_____ This material was prepared on my own volition, outside my official duties for the U.S. Government.

Approved and Accepted: AUTHOR: _____
(Signature)

(Typed or printed name)

DATE: _____

INSTRUCTIONS FOR FOREIGN NATIONAL VISITORS

This is a reminder to our foreign national attendees to the HPEC Workshop on 20–22 September 2005. Please be advised that if you have not done so, you should begin the paperwork for your visit to Lincoln Laboratory immediately. Foreign government or military personnel must contact their embassy and forward a request to visit MIT Lincoln Laboratory at Hanscom Air Force Base. Foreign academic and industry representatives must complete the attached Laboratory's "Request for Foreign Visit Form," and return to the conference administrator immediately (fax: 01-781-981-2517). If you have any questions regarding the procedure, please contact the Security Services Department at Lincoln Laboratory (phone: 01-781-981-2402).

The following outlines the process used for foreign government and military personnel visits.

1. Visitor contacts his/her embassy in Washington, D.C. Visitor must justify the visit and the need for government-to-government interaction. This is done by producing an invitation for the visit or attendance at meeting/conference and/or explaining the need to process an official DoD visit request because of Lincoln Laboratory's physical location on Hanscom Air Force Base. Although not necessary, it is recommended that the visitor work within the Air Ministry liaison at their embassy.
2. Embassy official enters request for visit in DoD FORDTIS system. If the embassy is not on line with FORDTIS, they should use the manual process. In both cases, the request should be addressed to USAF, SAF/IA. The request should contain the following information:
 - a. Cage Code for MIT LL: [3G050]
 - b. Mailing address: 244 Wood Street, Lexington, MA 02420-9108
 - c. Fax No.: (781) 981-0110
 - d. Tel No.: (781) 981-2402
 - e. Visit Point of Contact: Foreign Visits Staff
 - f. Tel. No.: (781) 981-2402
 - g. Visit Dates
 - h. Level of information to be involved: UNCLASSIFIED/Public Domain
 - i. Purpose of Visit: Specific justification added here.
 - j. Embassy Remarks: Additional remarks as required.
 - k. U.S. Equipment: Add text concerning any U.S. hardware involved in this visit.
 - l. FMS Case: If this visit supports an FMS case, the approved FMS number should be added here.
 - m. Program/Agreement: If the visit supports a specific bilateral program, its name will be listed here.
 - n. Knowledgeable U.S. Person: The embassy should list the U.S. Government program manager or sponsor here.

INSTRUCTIONS FOR FOREIGN NATIONAL VISITORS (CONT.)

All requests should be forwarded via USAF SAF/IA. Routing to other U.S. Government agencies slows the process considerably.

Once the request is forwarded to USAF it will be staffed by SAF/IA (Secretary of the Air Force/International Affairs). The request will be routed down to USAF ESC/INF (a local USAF office at Hanscom Air Force Base).

ESC/INF will coordinate the visit request with the Security Services Department at MIT Lincoln Laboratory. Once we respond affirmatively, the foreign embassy will receive notice of approval of the visit.

A few pointers:

This process works best when the request is made promptly. Some foreign embassies place time limits on requests (e.g., 60 days).

Always ensure that the CAGE code (3G050) is on the request. It identifies MIT Lincoln Laboratory in the system.

Foreign embassies may wish to forward a copy of their request to MIT LL. Courtesy copies can be faxed to P.H. Mahoney, (781) 981-0110. The copy should contain the Foreign Visit (FORDTIS) Case ID number. This aids MIT LL in tracking the visit as it is routed through U.S. Government channels.

Lastly, please ensure that the request is routed through USAF.

Questions can be directed to Pat Mahoney at the address below.

Patrick H. Mahoney
Senior Department Administrator/International Operations
Security Services Department
(781) 981-2402
Fax (781) 981-0110
Secure (781) 981-6193
mahoney@LL.MIT.EDU



LINCOLN LABORATORY MASSACHUSETTS INSTITUTE OF TECHNOLOGY REQUEST FOR FOREIGN VISIT AUTHORIZATION

Visitor(s):	Citizenship:	Visa Type	Organization/Company:	U.S.	Foreign
_____	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>
_____	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

Date and duration of visit: 9/20/05 to 9/22/05

Job classification (check one):

Location:

- ☒ Main Laboratory ☐ Millstone ☐ Other
☐ Bldg. 1715 ☐ Haystack

- ☐ Scientist/Engineer
☐ Military/Government
☐ Professor/Fellow/Student
☐ Management/Administrator
☐ Company Service Representative
☐ Other _____

Laboratory host:

_____ Ext.: _____

Additional escort(s) (if applicable):

Purpose of visit:

- ☐ Technical Discussion or Presentation
☒ Seminar/Workshop
☐ Support Service
☐ Other _____

Technical area to be discussed:

DoD

- ☐ Advanced Electronics
☐ Aerospace
☐ Air Defense
☐ Ballistic Missile Defense
☐ Communications
☐ Surveillance
☐ Other _____

Visit is:

- ☒ Unsponsored (unclassified/public domain)
☐ Service and Utility
☐ Sponsored (per Embassy request: ESC/IN approval required) and
☐ Unclassified/Limited ☐ Classified
☐ Foreign Government VIP

Non-DoD

- ☐ FAA
☐ NASA
☐ NOAA
☐ CRDA
☐ Other _____

Topic(s) to be presented or discussed by visitor: _____

Title of Lincoln paper or presentation and description (if applicable): _____

Benefit to Lincoln Laboratory, U.S. Air Force, and/or other sponsors: _____

Requestor: _____ Ext.: _____ Group Office: _____ Division: _____

Approval: _____ Approval: _____

For Security Office Use Only	Initial	Date	For D.O. Use Only	Initial	Date
Security Notification	_____	_____	D.O. Approval	_____	_____
International Visit Administration	_____	_____	D.O. Comments	_____	_____
Security Office Approval	_____	_____		_____	_____
To D.O.	_____	_____		_____	_____
To ESC/IN	_____	_____		_____	_____
To TCLO	_____	_____		_____	_____
Visit Approval	_____	_____		_____	_____
Disclosure Approval	_____	_____		_____	_____

DISCLOSURE AUTHORIZATION FORM

FOR PUBLIC DOMAIN SESSIONS

Ninth Annual High Performance Embedded Computing Workshop (HPEC 2005)

**MIT Lincoln Laboratory
244 Wood Street / Room C-382
Lexington, MA 02420-9108
Attn: Joanne Zukowski / Holly Musto
Phone: (781) 981- 4842
Fax: (781) 981-2517**

Do not use this form for closed/limited sessions.

This completed form must be received by 30 August 2005 for presentation at the workshop and for publication in the abstract booklet and proceedings document(s).

Please read **BOTH** categories to determine which one is applicable. A "yes," and signature is required in either category I or category II for the paper to be presented and published.

Title of Presentation: _____

Author(s): _____

Organization name: _____

Address: _____

Telephone number: _____

CATEGORY I: U.S. Government clearance required

(1) Government employee as an author or co-author (unless work is performed outside official duties, see CATEGORY II); or (2) Industry/University performing work on a Government contract with a disclosure of information clause.

Has the paper been cleared for Public Release by the cognizant U.S. government department or agency*? Yes ☐ No ☐

Publication of Presentation is authorized

First author's signature: _____

CATEGORY II: U.S. Government clearance NOT required

(1) No U.S. Government funding involved and no export control restrictions*; or (2) University-performed fundamental research (DoD 6.1 funding)*; or (3) Government employee performing work outside official duties and no export control restrictions *; or (4) Foreign industry/university authors.

Is the paper appropriate for presentation in an open forum? Yes ☐ No ☐

Publication of Presentation is authorized

First author's signature: _____

*International Traffic in Arms Regulations (ITAR) and Export Administration Regulations (EAR)

DISCLOSURE AUTHORIZATION FORM

FOR CLOSED/LIMITED

Ninth Annual High Performance Embedded Computing Workshop (HPEC 2005)

MIT Lincoln Laboratory
244 Wood Street / Room C-382
Lexington, MA 02420-9108
Attn: Joanne Zukowski / Holly Musto
Phone: (781) 981- 4842
Fax: (781) 981-2517

Do not use this form for public domain materials.

This completed form must be received by 30 August 2005 for presentation at the Workshop and for inclusion in the abstract booklet and proceedings document. *Part II must be completed and signed.* Unless this form is received prior to presentation, the presentation must be cancelled.

PART I: TO BE COMPLETED BY AUTHOR

Title of presentation: _____
Author(s): _____
Company name: _____
Address: _____

Telephone: _____
Classification: _____

PART II: MUST BE COMPLETED BY A CERTIFYING OFFICIAL*

(For classified presentations and unclassified/limited presentations relating to work done under classified contracts.)

I hereby authorize oral disclosure of this presentation at the above Workshop and publication of the information in the limited distribution Proceedings and Abstract Booklet of the Workshop.

Overall classification: _____ Contains Export Control/ITAR material: yes ☐ no ☐

Classified papers should be marked:

Classified by: _____

Declassify on: _____

Sponsoring Agency

Certifying Official

_____ (typed)
_____ (signed)

Telephone _____ Date _____ Title _____

*For U.S. Government employee presentations – Agency Security Manager or Department Head

*For contractor employee presentations – User Agency Contract Monitor, Security Manager, or other Cognizant U.S. Government Official

FOR CLOSED LIMITED SESSIONS

INSTRUCTIONS FOR DISCLOSURE AUTHORIZATION FORM

FOR CLOSED/LIMITED SESSIONS

The Security Services Department of MIT Lincoln Laboratory has been assigned responsibility for disclosure authorization procedures for the HPEC 2005 Workshop. Both DoD and Industrial Security Regulations require written authorization for oral presentations or publication of all classified material. Disclosure authorization is required for unclassified contractor papers relating to work done under DoD contracts.

The Disclosure Authorization form consists of two parts:

PART I Basic presentation information to be completed by all presenters.

PART II Authors presenting a classified paper or authors who are contractors presenting unclassified papers relating to work done under DoD must have Part II completed by a certifying official. Authors are responsible for sending or delivering the form to the appropriate certifying authority along with a copy of their written summary or presentation materials. Note that the classification level is to be indicated along with the export control/ITAR information. The form should be completed by the certifying official and forwarded to the Lincoln Laboratory address at the top of the form by the dates listed below. Please note that it can take six weeks to receive disclosure authorization after the presentation is prepared.

The Disclosure Form will satisfy the requirement for both the oral presentation and publication in the Proceedings. This Disclosure Authorization Form and the written summary must be received at MIT Lincoln Laboratory by 30 August 2005. An additional copy of the Disclosure Form will be sent to you to process your full paper. Due to the time required to receive approval, it is suggested that you submit your paper and Disclosure Authorization Form to the proper official no later than 16 August so that sponsor approval can be obtained before the 30 August deadline. Then submit the approved form and paper to Lincoln Laboratory. No presentations will be made without proper authorization.

In order that there will be no misunderstanding, it is emphasized that disclosure authorization must be provided for all papers relating to work done under DoD contracts. The certifying official must in all cases be a U.S. Government employee representing the author's agency or the appropriate user agency.