

## **One-Day Seminar**

**On**

**Advances in Operating Systems  
(21<sup>st</sup> November, 2008)**

**Sponsored by**

**Microsoft India Ltd**



**Organized by**

University School of Information Technology  
Guru Gobind Singh Indraprastha University  
Kashmere Gate, Delhi – 110 403  
([www.ipu.ac.in](http://www.ipu.ac.in))

## **Guru Gobind Singh Indraprastha University, Delhi**

Guru Gobind Singh Indraprastha University, Delhi, has been established by Government of NCT of Delhi under the provisions of Guru Gobind Singh Indraprastha University Act, 1998. This is a teaching cum affiliating University that aims to facilitate and promote studies, research and extension work in emerging areas of higher education with focus on professional education in the disciplines of engineering, technology, Architecture, management, law, medicine, pharmacy, physiotherapy, nursing, education, journalism & mass communication, etc.

### **Workshop Objectives:**

Windows Academic Program Workshop provides information and practical knowledge of the content, access to the Windows kernel source code, curriculum materials and a project environment for teaching and research in operating system principles.

Introduce faculty members to the Windows Academic Program (WAP) materials.

Provide rudimentary experience accessing the Curriculum Resource Kit (CRK), building the Windows Research Kernel (WRK), and ProjectOZ, and

Share ideas on how to successfully use these for lectures and projects/labs.

## **Topics covered**

- Windows Kernel Internals overview
- Use of the CRK and other resources to build/augment OS curriculum
- Compiling and running the WRK on VirtualPC. Present Sample projects.
- ProjectOZ overview

## **Resource Persons**

Experts from Microsoft Ltd, USA. Instructors are **Dave Probert** (Kernel Architect, Windows Core Operating Systems Division, Redmond) and **Arkady Retik** (Windows Academic Program Manager, Windows Core Operating Systems Division, Redmond)

## **Who should attend?**

Faculties working in Engineering and Science colleges and who are teaching Operating Systems in various course(s) like B.Tech, M.Tech, BCA, MCA, etc. are welcome to attend this program.

## **Important Dates**

**Last date for registration 17/11/2008**

**Intimation of Selection 19/11/2008**

(List will be displayed on university web-site)

## **Registration fees**

No registration fees. Registration will be accepted only on the recommendation of the respective College Director/Principal/Dean.

## **Dean, USIT**

Prof. B. V. R. Reddy

## **Program Coordinator**

**Mr. Amit Prakash Singh**  
**Sr. Lecturer, USIT**

## **Organizing Committee**

1. Sh. Sanjay Kumar Malik
2. Sh. Ashish Payal
3. Mrs. Jyotsna
4. Mrs. Kamaldeep Kaur
5. Dr. Vandna Nath

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## **Venue**

Seminar hall  
Administrative Building  
GGG IP University  
Kashmere Gate, Delhi – 110 403

## About presenters:

**Dave Probert** is a kernel architect within the Windows Core Operating Systems Division at Microsoft where he is currently working on the next generations of Windows. Dave is also the architect for the Windows Academic Program, developing both the WRK package and ProjectOZ. Previously Dave managed kernel development for Windows, starting with the Windows 2000 release. Dave joined Microsoft in 1996, after earning his Ph.D. in Electrical & Computer Engineering at UC Santa Barbara developing the SPACE project with Prof. John Bruno. His prior industry experience includes serving as Vice President of Software Engineering at Culler Scientific Systems, consulting for various companies on UNIX kernel internals, and working as a systems architect at Burroughs corporation designing hardware and writing microcode for the B1900

**Arkady Retik** is the Windows Academic Program Manager. He is Director in Source and Ecosystem Programs team, Windows Core Operating Systems Division Microsoft, Redmond. Before that, he worked on several development projects in the Server's Windows Management Infrastructure group. Prior to joining Microsoft in 2000, Arkady served for a decade as a researcher, faculty member and professor in several universities (mainly in UK). He taught and researched a variety of subjects in computing and engineering. Arkady established and directed the Virtual Construction Simulation Research Group at the University of Strathclyde,

Glasgow, pioneering research in advanced visualization and VR. He holds a DSc in Computer Aided Design and Planning from Technion, IIT. He was recently made a Visiting Honorary Professor at Glasgow Caledonian University.

## Preliminary Agenda

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|--------------|--|
| 9:00-9:30    | Welcome and Windows Academic Program update        |
| 9:30-10:15   | Windows Core Architecture: compare and contrast    |
| 10:15-10:30  | Coffee Break                                       |
| 10:30-11:30  | Windows Kernel Internals                           |
| 11:30-12:30  | Windows OS Internals Curriculum Resource Kit (CRK) |
| 12:30-13:30  | Lunch  |
| 13:30-15:30  | Windows Research Kernel (WRK)                      |
| 15:30 -15:45 | Break  |
| 15:45 -17:00 | ProjectOZ/<br>What's new in Vista/<br>Discussion   |