

**VEE'05:**

First ACM SIGPLAN International Conference on Virtual Execution Environments  
June 11-12, 2005 • Chicago, Illinois, USA



Proceedings of the  
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# Foreword

It is our great pleasure to welcome you to the *1<sup>st</sup> International Conference on Virtual Execution Environments – VEE'05*. Up to now, research results on virtual execution engines were scattered among a number of different venues in the language (VM, PLDI, OOPSLA, IVME, ICFP), operating system (SOSP, OSDI), and architecture (ASPLOS, CGO, PACT) communities. The organizers of the USENIX VM Symposium and the ACM SIGPLAN IVME Workshop felt the needs of the community would be better served by a single conference that could address the breadth of issues related to virtual execution environments. *VEE* is intended to be a unique forum that brings together practitioners and researchers working on interpreters, high-level language virtual machines, machine emulators, translators, and machine simulators. *VEE'05* gives researchers and practitioners a unique opportunity to share their perspectives with others interested in the various aspects of virtual execution environments. This year's *VEE* is co-located with PLDI 2005 in Chicago, Illinois. Future instances are planned jointly with leading conferences in operating systems, programming languages, and architecture.

The call for papers attracted 65 submissions from the USA (31), Canada (9), Austria (6), Switzerland (3), Japan (3), Ireland (2), Israel (2), Australia, Belgium, China, Finland, Germany, Hungary, Russia, Sweden, and the United Kingdom. The submissions showed a healthy mix between academia (34), industry (22) and joint academia-industry projects (9). The program committee met at IBM Research in Hawthorne, NY on Friday, March 25, 2005. The committee accepted 19 excellent papers that cover a wide spectrum of topics related to virtual execution environments. On Saturday, March 26, members of the committee participated in an informal workshop that provided a forum for committee members to present their work and build collaborations. We hope this tradition will continue in future program committee meetings. In addition to the 19 accepted papers, the program includes keynote talks by James E. Smith and Martin Nally.

Putting together *VEE'05* was a team effort. First of all, we would like to thank the authors and keynote speakers for providing the content of the program. We would like to express our gratitude to the program committee and external reviewers, who worked hard in reviewing papers and providing suggestions for their improvements. We would also like to thank the *VEE* steering committee for helping to ensure the success of *VEE'05*. In particular, we would like to thank the steering committee co-chairs, Michael Franz and Sam Midkiff, for their efforts in creating the *VEE* conference from a lunch conversation at *PLDI'04*, to gaining support from the sponsors from *VEE's* predecessors, *VM* and *IVME*. Special thanks go to Chapman Flack at Purdue for maintaining the *VEE'05* web site and for his help in managing the review process. The CyberChair software greatly facilitated the management of the reviewing process. Finally, we would like to thank ACM SIGPLAN, USENIX, ACM SIGOPS, VMware, and IBM Research, for their support and publicity of the conference.

We hope that you will find this program interesting and thought-provoking and that the conference will provide you with a valuable opportunity to share ideas with other researchers and practitioners from institutions around the world.

**Michael Hind**  
*VEE'05 General Chair*  
IBM Research

**Jan Vitek**  
*VEE'05 Program Chair*  
Purdue University

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