The Association of Lisp Users invites you to attend

LUV '95

The Fifth International Lisp Users and Vendors Conference

to be held at the Royal Sonesta Hotel in

Cambridge, Massachusetts

on

August 14-18, 1995.

The keynote speaker will be

Guy L. Steele Jr.

Please mark your calendar and plan to join us!

For information about registration, paper submission, or how you can help, send e-mail to `luv-95@ai.sri.com`, or see the ALU home page at `http://www.cs.rochester.edu/u/miller/alu.html`

EDUGRAPHICS '95 and COMPUGRAPHICS '95

Second International Conference on Graphics Education, and
Fourth International Conference on Computational Graphics
and Visualization Techniques

Hotel Alvor Praia, Alvor, Algarve, PORTUGAL
December 4-8, 1995

Papers, panels, videos submission deadline : April 29

Contact/Further Information :
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NSF, Indiana University, McGraw-Hill Sponsored

Summer '95

Scheme Workshops

In computer science education it is especially important that a programming language be simple and powerful. Simple – so the mechanics of programming is not overly distracting, allowing students to experience the true joys and challenges of programming, from the very start. Powerful – so students learn from the outset to use the best tools for mastering complex problems. The programming language Scheme is rapidly growing in popularity because it offers a unique combination of simplicity and power. More than 200 institutions are now using Scheme, from a number of high schools to most of the best known research universities.

Before adopting Scheme, an instructor should feel comfortable with the language and have a feel for the new instructional possibilities that Scheme enables. To this end Indiana University will offer in the Summer of 1995 the following two workshops of two weeks each, which may be taken individually or in succession.

Introducing Scheme: June 12th to 23rd

This workshop provides an introduction to Scheme with special attention paid to the use of Scheme in introductory programming courses. Functional programming is introduced first, with emphasis on recursion and the use of procedures as first-class objects. Conceptual differences between the functional and imperative programming paradigms are highlighted when assignment is introduced. Graphics problems are provided for visual interest. A Scheme extension for object-oriented programming is introduced.

Using Scheme to Understand Programming Languages: June 26th to July 7th

Scheme enables some advanced courses to be approached in entirely new ways. To demonstrate this potential and develop skills in its use, this workshop presents a unique approach to the study of programming languages. Using Scheme as an executable meta-language enables a unified approach to teaching programming languages that spans the range from abstract semantics to implementation techniques. Every step is hands-on, using object-oriented interpreters that express the essential features of programming languages and techniques for their implementation. Prerequisite: the "Introducing Scheme" workshop or prior experience with Scheme.

Supporting software and educational materials: Workshop participants will be introduced to software and educational materials designed to enhance Scheme-based instruction. Some of this software and material is being developed with the assistance of National Science Foundation Educational Infrastructure Grant CDA-9312614.

Format: There will be about seven contact hours per day divided between lectures, with interactive display, and a laboratory, with individual computers and faculty assistance. On the mid-workshop Saturday, the schedule will be divided between instruction and an excursion. Sunday will be unstructured, with optional laboratory access.

Eligibility: All are welcome to apply. If necessitated by enrollment limitations, priority will be given to educators, and among them to minority and women applicants.

Instructors: Professors Daniel P. Friedman, Christopher T. Haynes, and George Springer of Indiana University and Professor Richard M. Salter of Oberlin College. Collectively the instructors have almost 50 years of experience with Scheme as a tool in both teaching and research. They have authored three popular Scheme-based college textbooks, have taught Scheme in France, India, and Mexico, and have presented Scheme tutorials at major conferences.

Tuition: $100 per workshop, including materials.

Minority fellowships: To promote diversity among those at the forefront of computer science education, Indiana University is offering support for several minority fellowships covering the workshop fee, living expenses, and possibly transportation.

Housing: Single air-conditioned dormitory rooms are $375 per workshop. Motel and guest-house recommendations will be provided on request. The university and town offer a variety of dinning options, many within walking distance.

Transportation: Bloomington is 50 miles south of the Indianapolis International Airport. Free workshop transportation will be offered at popular arrival and departure times.

Application: With appropriate access to the Web, you may apply via the HTML+ form

http://www.cs.indiana.edu/eip/application.html.

Otherwise, please fill in the following form and return it via one of these addresses:

- Email: scheme-workshop@cs.indiana.edu
- Fax: Scheme Workshop, 812-855-4829
- Mail: Scheme Workshop, Lindley Hall, Bloomington, IN 47405.

If you have specific questions, please feel free to contact us via one of these addresses, or phone 812-855-3376.

The early application deadline is April 1st. Notification of acceptance will be given by April 15th. Tuition and housing payment is due May 15th.

Scheme Workshop Application

Name:

Position:

Affiliation:

Email address (if possible):

Mailing address:

Check as appropriate:

[ ] applying for the "Introducing Scheme" workshop

[ ] applying for the "Using Scheme to Understand Programming Languages" workshop

[ ] dormitory accommodations desired

[ ] have disability that requires accommodation

Minority Fellowship Application

If you wish to be considered for a minority fellowship, please supply a brief personal statement indicating your minority status, financial need, academic accomplishments (including degrees), and the use you would like to make of the knowledge gained in this workshop.

EDITORIAL POLICY

All submissions to Lisp Pointers, with the exception of technical articles, should be made in camera-ready text and sent to the appropriate department head. Technical articles may be submitted to the Technical Articles Editor in either hard copy or in TEX source files by Arpanet link, tar format cartridge tape, or tar format reel-to-reel. All submissions should be single-spaced with no page numbers. Without a special waiver from the appropriate department head, submissions will be limited to ten pages. This can be achieved by printing longer articles two-up. Camera-ready text is defined to be no more than 7 1/2 x 10 inches or 19 x 25 centimeters, centered on an 8 1/2 x 11 inch page. Articles that contain too much blank space will be rejected. It is the author's responsibility to retain a working copy of the submission, as contributions will not be returned to authors. Authors not fluent in writing English are requested to have their work reviewed and corrected for style and syntax prior to submission.

Although Lisp Pointers is not refereed, acceptance is subject to the discretion of the appropriate department head. The scope of topics for Lisp Pointers includes all dialects of Lisp and Scheme. We encourage research articles, tutorials, and summarizations of discussions in other forums. Lisp Pointers is not a forum for detailed discussions on proposed changes to the Common Lisp standard.

Lisp Pointers is a Special Interest Publication of the Special Interest Group on Programming Languages (SIGPLAN). A subscription to LISP Pointers does not include membership in any group.