October 29th Newsletter

To: All CS Undergraduates
From: the CS Academic Office
CS Undergraduate Newsletter
October 29, 2007

Advising and Course Information

* Information on early registration for Spring 2008 courses
* Wondering who your advisor is? See below!

* Peer Advisors wanted! Volunteer to field email questions from fellow CS, Math &CS, and Stats& CS students about courses, workload, student organizations and other issues that students are best equipped to address
* Discovery courses for freshmen for Spring 2008 -- Registration in Discovery Courses or Discovery Sections of regular courses is limited to freshmen.
* Finding a Major that Fits, offered by The CareerCenter -- This workshop dates remaining this semester---October 16, 25 and November 1 & 6.

Each workshop is one hour in length. Pre-registration is strongly encouraged via the CareerCenter website (http://www.careercenter.uic.edu/services/workshops/wsmain.asp).

* Five-year BS/MS in CS program - see information below. Application deadline is Friday, November 16th.

* Extended drop deadline for MATH 415H (section H only), 417, 424, 427, 444, 447 and 448

* Spring 2008 Art + Design classes that are Open to the University, including our Discovery classes, classes with No Restrictions, and classes where all restrictions will be lifted on November 19. Please see below for the specific courses.

Scholarships, Research, Conferences and other Opportunities

* $30,000 Lemelson-Illinois Prize for Student Innovation. It is time once again for the call for entries for the $30,000 Lemelson-Illinois Student Prize for invention and innovation, administered by the College of Engineering through the TechnologyEntrepreneurCenter.

* The Computer Science Student Advisory Council (CSSAC) needs one Junior or Senior to serve as a member - see info below

* The CCSC South Central Conference professional papers submission deadline is fast approaching. November 5th is just two weeks ahead.

* The American Council of Engineering Companies of Illinois (ACEC-Illinois) is currently accepting applications for its Annual Scholarship Awards Program. Information and applications are available online at: www.acec-il.org/scholarship.cfm. The application deadline is December 14, 2007.

Career Info: Jobs, Internships, Corporate Events, Contests and other opportunities

* Internship positions at Yahoo (part-time) - see details below

* Cazoodle Inc., a spin-off from Computer Science of UIUC, is looking for "Web Programmer" and "Search Architect" to build the "next" generation Web applications and "data aware" search engines.

* DOE Day of Science - October 28-29 this year's upcoming DOE Day of Science will be hosted by the Oak Ridge National Laboratory. The event will be held at the Knoxville (Tennessee) Convention Center and will feature speakers and exhibits from the U.S. Department of Energy's national laboratories and facilities.

* ChicTech Retreat - April 19th-20th 2008 - Volunteers/Counselors will be needed!!! Also, if interested in assisting with High School visits during the fall semester, please contact Samantha Chan at sdchan@uiuc.edu.

* NCWIT Annual Conference - May 14th-May 15th 2008 - Volunteers will be needed!!!
Lectures, Symposia, etc.

* Paul Debevec, the SIGGRAPH 2007 Computer Animation Festival Chair, will present the full Electronic Theater program on Thursday, Nov. 8th in the NCSA auditorium. This event is free of charge and open to the public. There will be free food at the reception.

COMPUTER SCIENCE COLLOQUIUM (and Graduate Seminar)

ADVISING AND COURSE INFORMATION

* Information on early registration for Spring 2008 courses

Early registration for Spring 2008 courses begins soon. Some students (Chancellors Honors and James Scholars) will be able to register as soon as October 29th. To find out precisely when you will be able to register, you can check your Time Ticket (the earliest time you are authorized to register) on Enterprise Applications (the program you use to register).

ALL NEW FRESHMEN, NEW TRANSFER STUDENTS AND JUNIORS WILL BE REQUIRED TO MEET WITH THEIR FACULTY ADVISORS BEFORE REGISTERING FOR COURSES. You have already received an email about this and will receive a reminder soon. Read it carefully!

* Wondering who your advisor is?

Answer: You have more than one advisor! All students have a faculty advisor assigned to serve as a mentor, to answer questions about specializations, careers and graduate school. For routine questions about degree requirements, policies and procedures, visit the staff in the CS Academic Office – the advising office for all CS, Math & CS, and Statistics & CS majors. Office hours are 8:00 to 11:45 am mornings and 1:00 to 4:45 afternoons, M-F. On rare occasions, the office may shut down for meetings or other events, but we usually limit these to an hour at most and schedule them during low-traffic times. You can also ask advising questions by emailing Steve Herzog, the full-time CS advisor, at smherzog@uiuc.edu. To find out more about the academic office and the CS advising resources, visit the CS website's undergraduate advising wiki at https://agora.cs.uiuc.edu/display/undergradProg/CS+Department+Advising.

* Peer Advisors wanted! Volunteer to field email questions from fellow CS, Math &CS, and Stats& CS students about courses, workload, student organizations, apartments, and other issues that students are best equipped to address.

We're looking particularly for seniors, juniors and sophomores. Please email Steve Herzog (smherzog@uiuc.edu) with the following information:

Your name:
Your program (CS, Math & CS or Stat & CS):
Your netid:
Issues that you are particularly well able to address (e.g. minors, student organizations, specializations, etc.):

* Discovery courses for freshmen for Spring 2008

The list of Discover Course offerings for Spring 2008 has been posted to the Provost's website: http://www.provost.uiuc.edu/programs/discovery/Courses.html

Registration in Discovery Courses or Discovery Sections of regular courses is limited to freshmen. Here's the rationale for the program as presented by the university: "The Discovery Program helps Illinois students enhance their education through greater interaction with faculty in small classes. The interactive courses also enable faculty to share their research in a particular area with students. It is intended for first-year students only.

Discovery sections cover a wide range of disciplines and enrollment is limited to a maximum of twenty students per section. Some Discovery courses can be used to satisfy General Education requirements or requirements in a major, while others are electives. Check with your adviser to find out if a Discovery course satisfies a requirement for you."

* Finding a Major that Fits

Finding a Major that Fits, offered by The Career Center has provided help for over one hundred students who are exploring majors at UIUC. This workshop is designed to assist freshmen and sophomore students select a major and can also be useful for students considering changing their major. Participants learn how to identify their primary interests and connect interests to possible majors. By the end of the workshop, students are asked to identify at least 2 potential majors to explore. Additionally, students will be introduced to web resources to help them explore these potential majors.
This workshop dates remaining this semester---October 25 and November 1 & 6.

** Each workshop is one hour in length. Pre-registration is strongly encouraged via the CareerCenter website (http://www.careercenter.uiuc.edu/services/workshops/wsmain.asp).

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* Five-year BS/MS in CS program - see information below. Application deadline is Friday, November 16th.

Are you interested in a program that will make you more marketable to potential employers while introducing you to serious research? If so, then the following is for you.

Applications for Spring 2008 provisional admission to the 5-year BS/MS program in Computer Science are being accepted from juniors and select first semester seniors.

Candidates for this highly competitive program must have a 3.5 GPA, though many things in addition to GPA are considered for admission.

Applications and all supporting credentials (non-UIUC transcripts, reference letters, statement of purpose) are due to the Academic Office (1210 SC) by:

** Friday November 16, 2007 at 4:45pm **

Because entry into this accelerated MS program is so competitive, late applications will not be considered.

Please consult the CS Department web site for electronic applications, a copy of the reference letter template, the program description, and the research code list:

http://www.cs.uiuc.edu/undergraduate/programs.php#bsms

Answers to questions frequently asked by applicants over several semesters are available on-line at:

http://www.cs.uiuc.edu/undergraduate/bsmsfaq.php

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* Extended drop deadline for MATH 415H (section H only), 417, 424, 427, 444, 447 and 448

LAS and Engineering students enrolled in Mathematics 415H, 417, 424, 427, 444, 447, and 448 are permitted to drop from these courses without academic penalty and without petition through the end of the 13th week of the semester. Thus, Friday, November 16, 2007, is the drop deadline for these courses in Fall 2007.

** LAS students** who wish to drop the course(s) should see the receptionist in the LAS office and ask to be directed to a COAR user, who will process the late drop without a grade of "W". **Engineering students** should be directed to the Engineering College Office, 206 Engineering Hall, for assistance with the late drop. Students in other colleges may need to petition their college office for this policy to be applied, but the math department would support it.

Any request to drop Math 415H, 417, 424, 427, 444, 447, and 448 after November 16, 2007, will be considered a late drop request, and the student will be required to submit a written petition to the Late Add / Drop Committee consistent with normal policy.

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Below is a list of Spring 2008 Art + Design classes that are Open to the University, including our Discovery classes, classes with No Restrictions, and classes where all restrictions will be lifted on November 19.

Please pass this information on to interested students.

Spring 2008 Art + Design Discovery Classes

**ART 199**  CRN: 39747  MW  9:00-11:40  Professor Billie Theide

Topic: Introduction to Jewelry/Metal I, 3 credits

**ART 199**  CRN: 44617  MW  1:00-3:40  Professor Robin Douglas

Topic: Expressive Painting, 3 credits

**ART 199**  CRN: 44619  TR  4:00-6:40  Professor Myoun Kim

Topic: Design processes from the United States to Korea, 3 credits

**ART 199**  CRN: 44612  MW  4:00-6:40  Professor Thomas Albrecht

Topic: Drawing I, 3 credits

Open Spring 2008 Art + Design classes - No Restrictions **ART 250:**
Writing With Video, WWV, 3 credit hours Advanced Composition, Literature and the Arts, and Western Comparative Culture approved.

CRN: 46811  MW  1:00-3:40
CRN: 46812  MW  4:00-6:40
CRN: 46813  TR  4:00-6:40
CRN: 46815  TR  9:00-11:40

ART 108: Ikebana: Japanese Floral Arts, 3 credit hours
CRN: 47180  W  1:00-3:40  Professor Kimiko Gunji

ARTH 108: Ikebana: Japanese Floral Arts, 3 credit hours
CRN: 47180  W  1:00-3:40  Professor Kimiko Gunji

ARTH 112 Renaissance to Modern Art, 4 credit hours, Literature & Arts
Gen Ed CRN: 30622  MWF  12:00-12:50  Professor Jennifer Greenhill

ARTH 114 Introduction to East Asian Art, 4 credit hours, Non-Western
Gen Ed CRN: 48044  MWF  1:00-1:50  Professor Anne Burkus-Chasson

ARTH 215 Greek Art, 3 credit hours CRN: 30623  MW  10:30-11:45  Professor Eric Hostetter

ARTH 257 History of Photography, 3 credit hours
CRN: 48074  MWF  12:00-12:50  Professor Eun Young Jung

ARTH 360 Women and the Visual Arts, 3 credit hours
CRN: 39087  TR  1:00-2:15  Professor Jeryldene Wood

ARTH 423 Romanesque Art — 3 credit hours
CRN: 43848  TR  4:00-5:15  Professor Charlotte Bauer

ARTH 433 Fifteenth-Century Italian Art, 3 credit hours
CRN: 47911  TR  10:30-11:45  Professor Jeryldene Wood

ARTH 444 Spanish Art 1700-1900, 3 credit hours
CRN: 48068  TR  2:30-3:45  Professor Oscar Vazquez

ARTH 446 Art Since 1940, 3 credit hours
CRN: 39095  MW  1:00-2:15  Professor Jennifer Burns

ARTD 299 Special Topics in Design Courses, 3 credit hours
CRN: 46831  MW  4:00-5:15  Professor John Jennings

ARTS 299 Special Topics in Studio Art, 3 credit hours
Topic: Museums in Action: Engaging the Community.
CRN: 49096  TR  9:00-10:20  Anne Sautman

ARTS 499 Special Topics in Studio Art, 3 credit hours
Topic: The Body Articulated.
CRN: 46860  TR  4:00-6:40  Professor Judi Ross

Spring 2008 Art + Design classes - All restrictions lifted on November 19
ARTS 210 Ceramics Sculpture I, 3 credit hours
CRN: 30375 MW 1:00-3:40 Catherine Wiesener
CRN: 30374 TR 1:00-3:40 Professor Ronald Kovatch

ARTS 230 Jewelry/Metals I, 3 credit hours
CRN: 30371 MW 4:00-6:40
CRN: 30370 TR 4:00-6:40

ARTS 260 Basic Photography, 3 credit hours
CRN: 30739 MW 1:00-3:40 Steven Kluempers
CRN: 30736 MW 9:00-11:40 Donald Rasmussen
CRN: 30741 TR 1:00-3:40 Donald Rasmussen
CRN: 30738 TR 9:00-11:40 Matthew Crowther

SCHOLARSHIPS, RESEARCH, CONFERENCES AND OTHER OPPORTUNITIES

*$30,000 Lemelson-Illinois Prize for Student Innovation

It is time once again for the call for entries for the $30,000 Lemelson-Illinois Student Prize for invention and innovation, administered by the College of Engineering through the TechnologyEntrepreneurCenter. Applications are available online at www.30kprize.uiuc.edu, or at the TechnologyEntrepreneurCenter (313 Ceramics Building, 105 S. Goodwin Ave., Urbana). Applications are due by 5:00 PM on November 30, 2007.

Have questions? You can attend an information session to learn more about the prize...there are two information sessions remaining. Dinner will be served at all info sessions.

Nov 1, 2007 | 5:30 pm - 6:30 pm
ACES Library Heritage Room

Nov 7, 2007 | 5:30 pm - 6:30 pm
Grainger Engineering Library

The prize is open to all undergraduate and graduate students at the University of Illinois at Urbana-Champaign, regardless of major or department. The goals of the prize are to reward those students who exemplify the innovation and invention occurring at the University. You can learn more about the prize at www.30kprize.uiuc.edu.

*$ The Computer Science Student Advisory Council (CSSAC) needs one Junior or Senior to serve as an at-large member (undergrad II)

The Student Advisory Council represents the concerns of the student population, advises and helps in the administration of the department, and promotes better relations between students, faculty, and staff. The council is comprised of liaison members from all CS registered student organizations and three representatives from the student body at large (one from each level - undergrad I and II, and grad). The council meets a couple of times during fall and spring semesters. If you are interested, please email a personal statement (one-two paragraphs) with your qualifications to Steve Herzog (smherzog@uiuc.edu). All applications will be read (anonymously) by the current council members and ranked.

* The CCSC South Central Conference professional papers submission deadline is fast approaching. November 5th is just two weeks ahead. This is just a reminder for those that may be considering submitting their work. The CCSC South Central Regional Conference has become a significant medium of information exchange in several areas of computer science teaching and research. In April, the conference will be hosted by Texas A&M University - Corpus Christ, The Island University, in Corpus Christ, Texas.

Papers on a diversity of topics in teaching computer science, introducing new subjects in the curriculum, and advanced research results from teaching-oriented institutions are solicited. Two main themes are going to be highlighted this year: Computer and Network Security, and Software Engineering Concepts and Applications. However, papers in all areas will be considered. This is your chance to participate by submitting a paper, tutorial, panel proposal, or just attend the conference.

Attached to this message, you will find the first call for submissions. Any questions you may have can be addressed to any of the Conference Committee members.
Important dates are:

Deadline for submission of regular papers: November 5, 2007
Deadline for submission of panels and tutorials: November 21, 2007
Deadline for submission of student papers: November 26, 2007
Deadline for submission of student posters: April 1, 2008
Conference dates: April 18 and 19, 2008

We hope to see you there!

If you do not want to receive any other information about the conference, please notify the publicity chair, Dr. Nelson Passos at nelson.passos@mwsu.edu.

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* The American Council of Engineering Companies of Illinois (ACEC-Illinois) is currently accepting applications for its Annual Scholarship Awards Program. Eligible candidates must be:
  - U.S. citizens
  - currently enrolled in an ABET (Accreditation Board for Engineering & Technology) accredited engineering program in Illinois
  - pursuing a Bachelor's, Master's, or PhD degree
  - entering their Junior, Senior, Fifth, Master's or Graduate year in the Fall of 2008.

Scholarship award winners will be selected by a committee of ACEC-Illinois Member Firm Principals and based on academic excellence, recommendations and an essay addressing the topic "What is the role or responsibility of the consulting engineer or land surveyor relative to shaping and protecting the natural environment?" Scholarships are awarded in June 2008.

Last year, ACEC-Illinois awarded $23,500 to 14 students at the state level. The top applicant received a $4,000 scholarship and thirteen students each received a $1,500 "Named" Scholarship sponsored by ACEC-Illinois Member Firms. In addition, each year the top applicant is forwarded to the American Council of Engineering Companies (ACEC) for the National Scholarship program, where they compete for additional Scholarship Awards.

Information and applications are available online at: www.acec-il.org/scholarship.cfm.

The application deadline is December 14, 2007.

The American Council of Engineering Companies of Illinois is a statewide association of independent engineering firms which represents the business and professional interests of over 230 member firms, which together employ over 10,000 engineers, architects, technicians and support personnel. ACEC-Illinois is a member organization of the American Council of Engineering Companies, a federation of state and regional councils which represent the interests of more than 5,000 private-practice engineering firms.

For more information on the ACEC-Illinois scholarship program or ACEC-Illinois contact:

Gaye Kick
(217) 529-7430
acecgaye@acec-il.org

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NCWIT Conference

When: May 14-15th
Where: UIUC
Contact: Sonya Harris (*lharris2@uiuc.edu)*

The mission of the National Center for Women & Information Technology is to ensure that women are fully represented in the influential world of information technology and computing. And they are holding their conference here at UIUC! We're looking for volunteers to help out this event. This is a NATIONAL event and it will favor highly for our Department to host this event. If you're interested, contact Sonya and more information is to follow.

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CAREER INFO: JOBS, INTERNSHIPS, CORPORATE EVENTS, CONTESTS AND OTHER OPPORTUNITIES

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* Internship positions at Yahoo (part-time)
Position #1: Yahoo - Part Time Software Intern (Web Development)

Where: Yahoo! @ ResearchPark
Send resume to: Gilda Jennings (gilda@yahoo-inc.com)*

Yahoo! has an exciting, part-time opportunity for a highly motivated Computer Science / Computer Engineering major. If you would like to work for the leading global Internet brand and one of the most trafficked internet destinations worldwide, Yahoo! is the company for you. The Production Operations Team is looking for someone to develop a Planning Web Interface (PWI) to provide Yahoo staff with a single destination to view an online, on-demand, version of the operations Plan of Record.

The initial estimate for this project is 195-240 hours. This position has the potential to turn into a Part Time position for the entire school year, and a full time position during the summer.

Required Skills:
Experienced with web design
Familiarity with PHP
Strong communication skills
The ability to work 15 - 20 hours per week

Position #2 Yahoo - Part Time Software Intern (Systems Administration)

Where: Yahoo! @ ResearchPark
Send resume to: Gilda Jennings (gilda@yahoo-inc.com)*

Yahoo! has an exciting, part-time internship opportunity for a highly motivated Computer Science / Computer Engineering major with an interest in systems administration. If you would like to work for the leading global Internet brand and one of the most trafficked internet destinations worldwide, Yahoo! is the company for you. We are looking for a detail oriented individual to assist in a variety of tasks to ensure that the Yahoo infrastructure is successfully maintained and our customer's needs are met.

Required Skills:
Demonstrated Unix systems knowledge
Strong communication skills
Team Player
Ability to work 15 hours per week

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* Cazoodle Inc., a spin-off from Computer Science of UIUC, is looking
for "Web Programmer" and "Search Architect: to build the "next"
generation" Web applications and "data aware" search engines.

**** Maybe that's you!!

* Quick learner-- and we'll teach you the rest!

* Full-time, part-time, and co-op positions available

* Skills (preferred, not necessary):

-- Web Programmer:
DHTML, CSS, XML, Javascript, PHP, Flash.

-- Search Architect:
Search algorithms, Databases, Machine Learning, OS.

**** Let's talk:
jobs@cazoodle.com, admin.cazoodle@gmail.com

And, Cazoodle is:

* http://www.cazoodle.com/

* at the ResearchPark (near Assembly Hall).

* average age: 24.8 years as of August 1, 2007.

* also known as: http://apartment.cazoodle.com

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* DOE Day of Science - October 28-29

This year’s upcoming DOE Day of Science, hosted by the Oak Ridge National Laboratory will be held at the Knoxville (Tennessee) Convention Center and will feature speakers and exhibits from the U.S. Department of Energy’s national laboratories and facilities. There are no limits on the numbers of students/faculty who can attend this year, and US citizenship is NOT required.

See [http://www.orau.gov/dayofscience/default.htm](http://www.orau.gov/dayofscience/default.htm) for program details and an online registration form. If you have any questions about the DOE Day of Science, please click “Contact” for the names of the appropriate persons to call or write.

* ChicTech Retreat - April 19th-20th 2008 - Volunteers/Counselors will be needed!!! Also, if interested in assisting with High School visits during the fall semester, please contact Samantha Chan at sdchan@uiuc.edu.

* NCWIT Annual Conference - May 14th-May 15th 2008 - Volunteers will be needed!!!

NCWIT Conference
When: May 14-15th
Where: UIUC
Contact: Sonya Harris (lharris2@uiuc.edu)

The mission of the National Center for Women & Information Technology is to ensure that women are fully represented in the influential world of information technology and computing. And they are holding their conference here at UIUC!! We're looking for volunteers to help out this event. This is a NATIONAL event and it will favor highly for our Department to host this event. If you're interested, contact Sonya and more information is to follow.

LECTURES, SYMPOSIA, ETC.

* Paul Debevec, the SIGGRAPH 2007 Computer Animation Festival Chair, will present the full Electronic Theater program on Thursday, Nov. 8th in the NCSA auditorium. This event is free of charge and open to the public. There will be free food at the reception.

The Electronic theater program is the premier showcase for the world's most innovative, stunning and creative digital film and video pieces. Each year an internationally recognized jury selects from hundreds of submissions from the best of the graphics industry. Pieces are from a variety of categories including: narrative shorts, time-based arts, visual effects, real-time graphics and scientific visualizations.

The Computer Animation Festival, that Electronic Theater is a part of, is recognized by the Academy of Motion Picture Arts and Sciences as a qualifying festival. Several pieces that have appeared in the Computer Animation Festival have gone on to win a “Best Animated Short” Academy Award.

Though not required, seats and food can be reserved through either RSVP on the Facebook Event: SIGGRAPH 2007 Electronic Theater UIUC Showcase, or by filling out the short webform on the SIGGRAPH website at [http://www.acm.uiuc.edu/siggraph/](http://www.acm.uiuc.edu/siggraph/).

* COMPUTER SCIENCE COLLOQUIUM (and Graduate Seminar)

John von Neumann and the Origins of Scientific Computing

Joe Grcar
Lawrence Berkeley National Lab and PhD Alumnus

November 8 (Thursday), 2007 at 10:00 a.m.

2405 SiebelCenter for Computer Science

Scientific computing as we understand it began to be practiced around the time of Carl Friedrich Gauss in the form of astronomical calculations based on Issac Newton’s laws, and in the form of geodetic calculations for cartography. Of course, the invention of modern computers (those digital, electronic, and programmable) in the mid 1940s represented a paradigm shift in what could be achieved through calculation. From his wartime military duties John von Neumann acquired what he described as an “obscene” interest in mechanized calculations.

No one was better situated than he to understand the advances that could be realized but also the whole range of technical obstacles that had to be overcome. Thus von Neumann and his principal collaborator in this work, Herman Goldstine, reinvented scientific computing in the late 1940s. As a necessary prerequisite to that work they also in large part invented the modern computer and created computer science in a series of influential reports that although unpublished were widely circulated.
This talk will survey the development of scientific computing from Gauss to the first electronic calculations in the early 1950s. The emphasis is not on von Neumann himself but rather on the conceptual changes that occurred. Von Neumann arises naturally in the story because many of those changes can be traced to him. Time permitting, we will also sketch von Neumann's biography.

Bio:

Joe Grcar is a member of the Center for Computational Sciences and Engineering (CCSE) at Lawrence Berkeley National Lab. He was one of the original developers of CHEMKIN, and he co-authored both the PREMIX flame code and the PSR well-stirred reactor code. His current interests are turbulent flame theory and simulation, pollutant formation especially NOx, and automated kinetic analysis.