

Siam Student Chapter Final Report for 2013–2014 Academic Year (1 of 3)

Student Chapters receiving funds from SIAM are required to submit a final report of activities and finances by the end of academic year. Please complete final report, sign and submit to SIAM office by June 30, 2014. Please attach separate sheets of paper if additional space is needed.

Date of report:	June 26, 2014
Student Chapter:	Charles University in Prague Chapter of SIAM
Chapter Web site:	http://siam.cuni.cz/en/
Chapter Facebook Page:	https://www.facebook.com/PragueSIAMSC
Chapter Twitter Handle:	@SIAMSCPrague
Faculty Advisor:	Josef Málek and Zdeněk Strakoš

Please check Chapter listing on SIAM Web site www.siam.org/students/chapters/current.php and report any changes below or email revisions to snell@siam.org.

New officers: treasurer: Adam Janečka

Demographic of Chapter Membership

Member type		Departments		Gender	
Undergraduates	24	Mathematics	27	Male	37
Graduate Members	27	Applied Mathematics	15	Female	16
Faculty Members	2	Physics	7	Total Members	53
Total Members	53	Computer Science	2		
		Other	2		
		Total Members	53		

Report on Chapter Election

Date of Election: May 28, 2014 to elect officers to serve term from July 1, 2014 to June 30, 2015. Please provide office, name & email address of all officers elected to serve.

President:	Jan Papež, jan@papez.org
Vice President:	Marek Netušil, marek.netusil@gmail.com
Secretary:	Jan Kuřátko, kuratko@cs.cas.cz
Treasurer:	Adam Janečka, janecka@karlin.mff.cuni.cz
Webmaster:	Petr Lukáš, luk.p@post.cz

Chapter Highlights

Please describe at least one activity in detail that might be a good idea to share with other chapters, suitable for posting on the SIAM website or SIAM Student Chapter Facebook page. (Please attach a separate sheet of paper if additional space is needed.)

The detailed description with photographs is attached on a separate sheet, see “Chapter Highlights”.

Report on Chapter Activities

Please provide complete description of all Chapter activities, including details on number & type of meetings with approximate number of attendees, name of invites speaker(s) & topic of presentation, contests, awards, field trips, etc. (Please attach a separate sheet of paper if additional space is needed.)

TITLE OF EVENT OR PRESENTATION: Meeting with Undergraduate Students
DATE OR EVENT OF PRESENTATION: October 9, 2013 NUMBER OF PARTICIPANTS: ≈ 10
SPEAKER, INSTITUTIONAL AFFILIATION: Students of Faculty of Mathematics and Physics

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: The meeting of undergraduate students with current students of two applied disciplines at the faculty: Mathematical and Computer Modelling in Physics and Engineering, and Numerical and Computational Mathematics. The event was attended by about 10 students. The main purpose of this meeting was to give younger students useful information on these specializations and to inform them about new study plans which apply this academic year onwards.

TITLE OF EVENT OR PRESENTATION: Meeting with Candidates Applying for a Research Grant
DATE OR EVENT OF PRESENTATION: October 15, 16 & 29, 2013 NUMBER OF PARTICIPANTS: ≈ 20
SPEAKER, INSTITUTIONAL AFFILIATION: Students of Faculty of Mathematics and Physics

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: The Chapter helped prospective candidates to apply for a research grant within the Grant Agency of the Charles University especially designed to fund student research. Members of the Chapter and other students who already received the support gave the prospective candidates advice what points to stress and what not to forget in their application. This year we extended the event by one meeting for students of computer science. This activity of our Chapter is highly appreciated by the authorities of the Faculty of Mathematics and Physics and members of its academic senate.

TITLE OF EVENT OR PRESENTATION: Invited Talk – Martin Mareš
DATE OR EVENT OF PRESENTATION: December 17, 2013 NUMBER OF PARTICIPANTS: ≈ 35
SPEAKER, INSTITUTIONAL AFFILIATION: Martin Mareš, Department of Applied Mathematics

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: Martin Mareš is an assistant professor at the Department of Applied Mathematics (KAM) of Charles University. He gave a lecture about how can a computer algorithm be improved by introducing a randomness to the procedure. He also demonstrated how the theory of probability and statistics can help with designing more efficient ciphers.

TITLE OF EVENT OR PRESENTATION: Introduction to Programming in MATLAB
DATE OR EVENT OF PRESENTATION: February 2, 2014 NUMBER OF PARTICIPANTS: 18
SPEAKER, INSTITUTIONAL AFFILIATION: Marie Kubínová and Jan Papež

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: A week intensive programming course was organized, again after two years, by the Chapter members Marie Kubínová and Jan Papež. The aim of the course was to give a brief introduction to programming in MATLAB with the emphasis on how to solve problems in MATLAB in a smart way. The course was attended by 18 participants from several faculties of our University (Faculty of Mathematics and Physics, Faculty of Science, First Faculty of Medicine).

Siam Student Chapter Final Report for 2013–2014 Academic Year (3 of 3)

TITLE OF EVENT OR PRESENTATION: Workshop of SIAM SC Prague
DATE OR EVENT OF PRESENTATION: March 20–22, 2014 NUMBER OF PARTICIPANTS: ≈ 40
SPEAKER, INSTITUTIONAL AFFILIATION: see the attached sheet “Chapter Highlights”

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: The Chapter held a three-day international workshop to strengthen the contacts within several European Student Chapters. We were very happy that our invitation was accepted by the representatives of SIAM Chapters in Manchester, Heidelberg, and Magdeburg. The prologue to the workshop, an interesting talk on Crouzeix’s Conjecture, was given by Anne Greenbaum. The workshop continued with the students’ presentations (the list is given in “Chapter Highlights”), and ended with joint Prague sightseeing. Details, photographs, and Book of Abstracts are attached in the “Chapter Highlights”.

TITLE OF EVENT OR PRESENTATION: Invited Talk – Matthew Wiener
DATE OR EVENT OF PRESENTATION: April 29, 2014 NUMBER OF PARTICIPANTS: ≈ 30
SPEAKER, INSTITUTIONAL AFFILIATION: Matthew Wiener, MSD IT Global Innovation Center

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: Matthew Wiener, a leader of Analytics & Data Sciences group at MSD IT Global Innovation Center in Prague presented examples of how pharmaceutical industry uses data analysis, statistics, and mathematical modelling to improve how they discover, manufacture, and distribute therapies to prevent and cure diseases. After the talk student positions in newly established innovation center were proposed.

TITLE OF EVENT OR PRESENTATION: Business meeting
DATE OR EVENT OF PRESENTATION: May 28, 2014 NUMBER OF PARTICIPANTS: ≈ 15
SPEAKER, INSTITUTIONAL AFFILIATION: Chapter committee

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: At the business meeting we recalled the activities of the Chapter in the past year. We had time for summarizing our successes and for discussion what should be improved in the future. We have elected a new committee that will serve in the academic year 2014/2015.

TITLE OF EVENT OR PRESENTATION: SIAM SC Seminar
DATE OR EVENT OF PRESENTATION: two-week interval NUMBER OF PARTICIPANTS: ≈ 8
SPEAKER, INSTITUTIONAL AFFILIATION: Students of Faculty of Mathematics and Physics

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: As in the last year we held a regular seminar for students interested in topics from applied mathematics. We managed to have ten seminars and three of them were given by researchers working at a different institute. For further information and a complete list of talks see the attached sheet “Chapter Highlights”.

For SIAM NEWS

Please identify special Chapter activities that could be reported in SIAM News:

We would like to suggest the Workshop of SIAM SC Prague to be reported in SIAM News. The details and photographs are given in “Chapter Highlights”.

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Chapter Name: Charles University in Prague Chapter of SIAM

	ACTIVITIES FUNDED BY SIAM	ACTIVITIES FUNDED BY OTHER SOURCES	TOTAL FUNDING FROM ALL SOURCES
INCOME			
SIAM funds received for 2012-2013	\$500,00		\$500,00
SIAM funds carried over from last year			\$0,00
Chapter dues <i>(optional)</i>			\$0,00
Department funds			\$0,00
Student activity funds			\$0,00
Other university funds		\$250,00	\$250,00
Corporate sponsorship <i>(please specify*)</i>			\$0,00
Other <i>(please specify*)</i>			\$0,00
TOTAL INCOME	\$500,00	\$250,00	\$750,00
EXPENSE			
Speakers at Chapter Meetings - travel expenses			\$0,00
Speakers at Chapter Meetings - honorarium			\$0,00
Food & Beverage	\$438,00	\$250,00	\$688,00
Supplies and printing			\$0,00
Marketing, advertising, promotion	\$62,00		\$62,00
Awards - <i>not an allowable SIAM expense</i>			\$0,00
Travel - <i>define on separate sheet of paper - destination, # students, # faculty and brief purpose of trip</i>			
a. One-day field trip <i>(minimum four students) to industry, SIAM Section meeting, or regional SIAM student chapter conference</i>			\$0,00
b. Other travel - <i>not an allowable SIAM expense: travel to meetings, conference registration, hotel</i>			\$0,00
Other <i>(please specify*)</i>			\$0,00
TOTAL EXPENSE	\$500,00	\$250,00	\$750,00
(NET AMOUNT)	\$0,00	\$0,00	\$0,00

Unexpended funds may be returned to SIAM or may be reallocated to the chapter upon submission and approval of funding request for the following year.

FUNDING GUIDELINES

Allowable expenses include honoraria or travel for a speaker invited to address the chapter, light food and beverage at chapter meetings; copying and printing promotion information on the chapter and its activities; one day field trips (minimum four students) to industry, SIAM section meeting or regional SIAM student chapter conference. Any requests for travel must include details: destination, purpose of trip, and the number of student and faculty participants.

Non allowable expenses include awards, prizes, registration for conferences, individual travel to meetings, hotel accommodations. Please note that Chapter funds cannot be used for the attendance at SIAM meetings, other than a field trip as described above, nor to attend meetings organized by other professional societies. Other types of expenditures may be requested, but require prior approval.

SIGNATURE FACULTY ADVISOR	
SIGNATURE CHAPTER PRESIDENT, SECRETARY, OR TREASURER	
DATE	June 26, 2014
NAME (PLEASE PRINT) CHAPTER PRES, SEC, OR TRES	KURÁTKO

By June 30, 2013, please sign and submit pages 1, 2, and 3 to:

Nancy Snell, Membership Coordinator

Society for Industrial and Applied Mathematics (SIAM)

3600 Market Street, 6th Fl., Philadelphia, PA 19104-2688

Phone: 215 382 9800 x 320 Fax: 215 386 7999 Email: nes@siam.org

Detailed expenses

In the table we present in detail how much money we spent on each event for the refreshment from the entry *Food & Beverage*.

Event	Spent
Meeting with undergraduate students	\$10
Meeting with candidates applying for a research grant	\$20
Invited talk – Martin Mareš	\$20
Introduction to Programming in MATLAB	\$63
Workshop of SIAM SC Prague	\$132
Invited Talk – Matthew Wiener	\$20
Business meeting	\$69
SIAM SC Seminar	\$104

Faculty of Mathematics and Physics provided the financial support (\$250) on Workshop of SIAM SC Prague that covered the lunch and the entrance to Clementinum building.

For marketing, advertising, and promotion we have spent \$34 on buying badges with the Chapter logo and \$28 on developing the photographs from our events. We did not use any money for printing the posters, leaflets, etc., because Faculty of Mathematics and Physics enabled us to print them free of charge.