

Siam Student Chapter Final Report for 2012-2013 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, 2013. Please attach separate sheets of paper if additional space is needed.

Date of report: June 18, 2013  
Student Chapter: Charles University in Prague Chapter of SIAM  
Chapter Web site: <http://siam.cuni.cz/en/>  
Faculty Advisor: Josef Málek and Zdeněk Strakoš

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

New officers: none  
Chapter Web site: <http://siam.cuni.cz/en/>

Demographic of Chapter Membership

Member type		Departments		Gender	
Undergraduates	23	Mathematics	26	Male	34
Graduate Members	23	Applied Mathematics	13	Female	14
Faculty Members	2	Physics	7	Total Members	48
Total Members	48	Computer Science	1		
		Other	1		
		Total Members	48		

Report on Chapter Election

Date of Election: June 13, 2013 to elect officers to serve term from July 1, 2013 to June 30, 2014. Please provide office, name & email address of all officers elected to serve.

President: Jan Papež, [jan@papez.org](mailto:jan@papez.org)  
Vice President: Marek Netušil, [marek.netusil@gmail.com](mailto:marek.netusil@gmail.com)  
Secretary: Jan Kuřátko, [kuratko@cs.cas.cz](mailto:kuratko@cs.cas.cz)  
Treasurer: Nikola Hlaváčová, [hlavacova.nikola@post.cz](mailto:hlavacova.nikola@post.cz)  
Webmaster: Petr Lukáš, [luk.p@post.cz](mailto: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 10, 2012 NUMBER OF PARTICIPANTS: ≈ 12  
SPEAKER, INSTITUTIONAL AFFILIATION:

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: The meeting of undergraduate students with current students of two applied disciplines at our faculty: Mathematical and Computer Modelling in Physics and Engineering, and Numerical and Computational Mathematics. The event was attended by about 10 students of mathematics and 2 students of physics. 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 16 & 30, 2012 NUMBER OF PARTICIPANTS: ≈ 20  
SPEAKER, INSTITUTIONAL AFFILIATION:

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. Also the vice dean of our faculty and the advisor Josef Málek informed the candidates about the way the applications are evaluated.

TITLE OF EVENT OR PRESENTATION: Excursion to the car factory ŠKODA AUTO  
DATE OR EVENT OF PRESENTATION: November 11, 2012 NUMBER OF PARTICIPANTS: 51  
SPEAKER, INSTITUTIONAL AFFILIATION:

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: Charles University in Prague Chapter of SIAM organized a trip to ŠKODA AUTO, which is the leading car producer in the Czech Republic, to promote the Chapter and increase the awareness of our activities among students. The transport from Prague to Mladá Boleslav and back was arranged by the Chapter due to the financial support from the Academic Senate of Faculty of Mathematics and Physics. During the excursion to ŠKODA AUTO participants visited the provisional museum with an incredible exhibition of cars produced in one-hundred-year history of the company. Afterwards participants were allowed to entry one part of ŠKODA AUTO factory and examine the assembly line for gear units, engines and hydraulic-press lines. The excursion attracted 50 participants (13 females, 3 University staff), both undergraduate and graduate students of mathematics, physics and computer science.

TITLE OF EVENT OR PRESENTATION: Meeting with alumni - Tomáš Rosa  
DATE OR EVENT OF PRESENTATION: November 15, 2012 NUMBER OF PARTICIPANTS: ≈ 70  
SPEAKER, INSTITUTIONAL AFFILIATION: Tomáš Rosa, Raiffeisenbank

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: Resuming the series of meetings with Alumni of Faculty of Mathematics and Physics, the Chapter organized the lecture of Dr. Tomáš Rosa on November 15th 2012. Presently, Tomáš Rosa works as a senior cryptologist in Raiffeisenbank.



In the lecture titled “From the Diary of a Professional Cryptologist” he spoke of the scope of his position and challenges in data encryption for mobile devices applications. This interesting and very up-to-date topic attracted about 70 people. The professional experience of Tomáš Rosa and his entertaining demonstrations made often the audience laugh. His lecture was very much enjoyable and appealing to us all.

TITLE OF EVENT OR PRESENTATION:	Meting with alumni - Marcela Vítková		
DATE OR EVENT OF PRESENTATION:	April 4, 2013	NUMBER OF PARTICIPANTS:	≈ 30
SPEAKER, INSTITUTIONAL AFFILIATION:	Marcela Vítková, PPF-Generali		

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: For the second meeting with alumni of Faculty of Mathematics and Physics the Chapter invited life actuary Marcela Vítková, presently working for PPF-Generali. She gave us an interesting speech about her life during and after her studies, but mainly about her work as an actuary. She spoke of her experience, daily difficulties one encounters when working in life insurance and also gave us brief examples of methodology used. She also emphasized the need of more professional mathematicians working in life insurance and encouraged present students to diligently study financial mathematics.

TITLE OF EVENT OR PRESENTATION:	Excursion to a nuclear reactor		
DATE OR EVENT OF PRESENTATION:	April 16, 2013	NUMBER OF PARTICIPANTS:	22
SPEAKER, INSTITUTIONAL AFFILIATION:			

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: We organised an excursion to a nuclear reactor for students and members of the Chapter, which attracted more than twenty people. The majority of the people attending the excursion were undergraduate students, however, there were also graduate students and Josef Málek , the advisor of the Chapter. During the excursion we have learned a lot about nuclear energy, fission reaction, radiation and safety procedures in nuclear power-plants. It was very interesting to learn how very strict limits for everything there were.

TITLE OF EVENT OR PRESENTATION:	SIAM SC Seminar		
DATE OR EVENT OF PRESENTATION:	two-week interval	NUMBER OF PARTICIPANTS:	≈ 10
SPEAKER, INSTITUTIONAL AFFILIATION:	students of our faculty		

EVENT DESCRIPTION OR PRESENTATION OF ABSTRACT: In the academic year 2012-2013 our Chapter held many events for students. Among them, there is one important activity of our Chapter that spans the whole academic year. It is a student seminar which is held in two-weeks interval. Although there are many seminars at our faculty, we managed to find our place and slowly attract more people from different departments either as speakers or attendees. The reason behind it is the format of talks that differs from other seminars. For further information and a complete list of talks see 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 excursions to the car factory ŠKODA AUTO. The details and photographs are given in “Chapter Highlights”.

# SIAM Student Chapter Final Report for 2012-2013 Academic Year

Chapter Name: Charles University in Prague Chapter of SIAM

	ACTIVITIES FUNDED BY SIAM	ACTIVITIES FUNDED BY OTHER SOURCES	TOTAL FUNDING FROM ALL SOURCES
<b>INCOME</b>			
SIAM funds received for 2012-2013	\$500,00		\$500,00
SIAM funds carried over from last year			\$0,00
Chapter dues (optional)			\$0,00
Department funds			\$0,00
Student activity funds		\$250,00	\$250,00
Other university funds			\$0,00
Corporate sponsorship (please specify*)			\$0,00
Other (please specify*)			\$0,00
<b>TOTAL INCOME</b>	<b>\$500,00</b>	<b>\$250,00</b>	<b>\$750,00</b>
<b>EXPENSE</b>			
Speakers at Chapter Meetings - travel expenses			\$0,00
Speakers at Chapter Meetings - honorarium			\$0,00
Food & Beverage	\$170,00		\$170,00
Supplies and printing			\$0,00
Marketing, advertising, promotion	\$330,00		\$330,00
Awards - not an allowable SIAM expense			\$0,00
Travel – define on separate sheet of paper - destination, # students, # faculty and brief purpose of trip			
a. One-day field trip (minimum four students) to industry, SIAM Section meeting, or regional SIAM student chapter conference)		\$250,00	\$250,00
b. Other travel – not an allowable SIAM expense: travel to meetings, conference registration, hotel			\$0,00
Other (please specify*)			\$0,00
<b>TOTAL EXPENSE</b>	<b>\$500,00</b>	<b>\$250,00</b>	<b>\$750,00</b>
<b>(NET AMOUNT)</b>	<b>\$0,00</b>	<b>\$0,00</b>	<b>\$0,00</b>

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	DATE
SIGNATURE CHAPTER PRESIDENT, SECRETARY, OR TREASURER	NAME (PLEASE PRINT) CHAPTER PRES, SEC, OR TREAS

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	\$15
Meeting with candidates applying for a research grant	\$10
Meeting with alumni - Tomáš Rosa	\$20
Meeting with alumni - Marcela Vítková	\$40
SIAM SC Seminar	\$40
Business meeting	\$45

In the request for funding of our Chapter we asked for a certain sum of money for Food & Beverage. As it turned out by the end of this academic year we have spent less than expected. We originally planned four meetings with Alumni, however, we managed to host only two such events. After a discussion among officers of the Chapter, we have decided to use the saved money for promotion and advertising.

For marketing, advertising, and promotion we have spent the money (\$330) on buying cups and ballpoint pens with the Chapter logo and the web page address on them. We did not use any money for printing the posters, leaflets, etc., because our faculty members enabled us to print them free of charge.

## Travel expenses

Due to the financial support \$250 from the Academic Senate of Faculty of Mathematics and Physics we paid the transportation from Prague to Mladá Boleslav and back (approximately 110 kilometres) to participants of the excursion to the car factory ŠKODA AUTO on November 11, 2012. The excursion attracted 51 participants (46 students of Faculty of Mathematics and Physics, 2 exchange students, 3 Faculty staff). The details on the event are given in the "Chapter Highlights".