



Budapest University of Technology and Economics



Brazilians at the BME
2014-2015 academic year



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Academic Year 2014-2015

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A Message from the Rector

Dear Reader,

It is my great pleasure to present you this commemorative yearbook, as a keepsake for the 206 Brazilian guest students who have spent their past year at the Budapest University of Technology and Economics. Thanks to the efforts of the Hungarian Rectors' Conference, CAPES and BME, we were able to host more than half of all Brazilian guest students arriving in Hungary under the auspices of the Science Without Borders programme during the academic year 2014-2015. It has been a fruitful and memorable year for the students, as well as for my teaching colleagues.

The basic task of BME is to provide engineering education. However, we also offer high quality courses in various aspects of economics, natural sciences and humanities. Our courses were designed to meet the requirements of today's society, especially those of the economy, and are constantly upgraded with these concrete needs in mind.

We are aware of the expectation on us not only to produce graduates who can excel in their professional fields at an international level, but also to educate intellectual adults who have the talent, diligence, devotion and creativity to contribute to the future development of both their native countries or Hungary, and their chosen disciplines within the university.

We are working hard to meet these expectations and doing our utmost to ensure that – as a result of their knowledge and skills – our graduates are highly valued on the job market and can compete at the highest level in companies and institutions. To do this we strive to provide our students with the necessary conditions for learning and developing their human qualities and professional skills. Our goal is to allow students to realise their full professional and intellectual potential, to reach the highest level that their abilities and dedication permits, and to prepare them for both an intellectual existence and for the tasks which intellectuals face.

We realise that to meet these expectations the BME must continue to act as a key institute in the national and international scientific, technical and economical fields and maintain its close relations with the scientific, research and economic community, with professional organisations and with other players in higher education.

Our mission, which is inseparable from education, is to further knowledge, to conduct scientific research, initiate research and maintain the BME's status as a serious research centre. As a participant in international research programmes and as a leader in directing domestic research the activities of BME encompass the entire process of innovation, basic

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and applied research, technical and commercial product- and service development and complex quality management, while also striving to apply the results of this research.

The BME has a significant educational capacity which is well balanced among the undergraduate courses (providing a broad basic knowledge), graduate courses (ensuring deep theoretical and specialist knowledge) and doctoral courses. We can thus assure the vast majority of our students that if they are motivated and work hard enough they can accomplish both the first and the second levels, thus gaining knowledge and skills in excess of the former graduates. The best students among them can also be assured that they will be given every assistance in attaining their doctorates.

Dear Students,

This university has been your home for the past year. I sincerely hope you return home with fond memories of this ancient institution, which its alumni have cherished wherever their fortune had taken them. You have not only gained new insights into your own field of study, but you have also acquainted yourself with Budapest, with Hungary, and with Europe. At times you may have been homesick, but your new-found colleagues and friends helped you through it, and most of you have now found a new place where you feel right at home. You have experienced a part of the world and a culture that is very different to what you have so far known. I believe that such experiences make us better scientists, and better people.

During your stay here, you have made Budapest your second home, and you all hold fond memories of this beautiful city and this country. When you return to your homeland, you will become our ambassadors: your acquired knowledge will reflect our efforts, and your accounts of your experiences will entice the interest of others. Our university's doors are open to your colleagues too: please encourage them to become part of this experience, and tell them to come and study in Budapest too.

I also hope that you will come back to our university: perhaps for your continuing studies, as PhD students, as researchers or educators. You are all most welcome to come back, to visit or to stay, with your whole family.

I wish you great success in your professional career, and a happy and prosperous life hereon. It has been a pleasure to have you with us.

Yours,

Dr. Gábor Péceli

Rector



Peregrination – student mobility

the act of going from one place to another

The equivalent of ‘peregrination’, the Hungarian word ‘*peregrináció*’ was the term since the seventeenth century for the wandering students who spent a few years at foreign universities. This kind of learning was basically available only for noblemen. They often travelled through Western Europe, studied at different universities from outstanding professors, gathered books for their libraries and tried to build up political connections with influential persons, too.

The modern era has brought about substantial changes also regarding wandering students. Peregrination today is called *student mobility*, available for many, state funding for it is quite easily accessible. Books published anywhere in the world can be purchased without problems. In addition, more and more knowledge can be downloaded simply from the internet. E-learning courses offer outstanding presentations with textbooks optimized for self-learning.

Does it make student mobility unnecessary? Not in the least! In 2014 about five million students were involved in it all over the world. Their profit is not simply the knowledge they gain at foreign universities. They come to know other people with different habits, learn not only from the professors but also from fellow students. Some countries support it with high priority. Brazil is one of the most supportive countries.

You have spent one or two semesters with Budapest University of Technology and Economics. Our professors and staff did their best to transfer their knowledge to you. You were diligent enough to acquire the knowledge.

I am sure you have profited much more. You came to know another country; its people, its nature and its specialities. I do hope you have made new friends, too. Remember the good experiences and forget the nasty ones. We also learnt a lot from you. Your cheerfulness and optimism exceeds the Hungarian average. *Budapest University of Technology and Economics welcomes you for further cooperation in the field of education or research and development.*

Adeus, vizontlátásra!

Dr. Ákos Jobbágy
Vice-Rector for Education



Dear Brazilian Friends,

Steven Spielberg once said:

“You have many years ahead of you to create the dreams that we can’t even imagine dreaming”

Why do I quote it to you? Just look around! The global economic crisis is flooding the whole World; environmental problems are threatening the life on the Globe; and so on...

So we need you. We need the dreams, expertise and activity of your generation, to solve those problems and prevent new ones! What seems to be impossible

today, will be “the present of the future”. Flying together with birds, swimming among the fish was impossible for centuries. These are everyday activities today.

You worked hard during this year, and you have to continue to do that at home, in Brazil also. You will see that your knowledge and your special experiences in a foreign country, like Hungary, have a very good value on the job market. You moved to Hungary and spent – I hope – one of the most important and interesting periods of your life here. That move was not just a challenge, risk and hard work, but – I am also convinced – it was a fantastic feeling, a lot of **fun** also. Remember us please, and come back as MSc or PhD students, or as a scientific partner later.

Finally, let me share with you an important message of Jack Welch, the chairman of the General Electric who said:

“Control your own destiny, or someone else will!”

László Dvorszki
International and Scientific Director



Welcome address by the Head of the Centre of Modern Languages

Dr. Judit Sárvári

“Good morning everybody!

On behalf of the staff of the Centre of Modern Languages, the language teaching unit of our university let me welcome you to the Budapest University of Technology and Economics.

The aim of the intensive language course is to brush up your English with special regard to the study and academic skills you need to be equipped with to be able to conduct your studies in the English medium instruction BSc training.

Along with your English studies you will get lessons in Hungarian culture and Hungarian language to help you function in our country while you are staying here. The social programmes, trips we are planning for you are aimed to fulfil this objective.

And now let me finish with some personal remark: I have been to Brazil several times as part of my family live there – I always stayed in São Paulo, but visited wonderful places like Ubatuba, Itamambuka, Parati, Embu. I loved your country and I hope by the time you leave Hungary, you will come to like my country at least as much as I did yours.

Finally let me wish you good luck with your studies and a nice stay in our capital, in our country.

When students begin their studies at our University, it is customary that they make a Solemn Declaration. As a student at BME, it is now your turn to make this Declaration.

Text of the Solemn Declaration

‘I, [...], a student of the Budapest University of Technology and Economics, a foreign citizen residing in Hungary solemnly declare that I shall observe the statutory provisions obligatory for foreign citizens in Hungary and the relevant statutes of this University. I shall always display respect for the University. I shall refrain from participating in or organizing any activity, which would disturb normal functioning and the academic atmosphere of the University. I shall do my best to complete my studies to the best of my ability, to deepen my knowledge of the achievements of progressive science and to become an expert in my profession’.”



A reflection of our year together

One university, eight faculties, three groups, 663 students, two years and 4256 e-mails from you. This is my statistic of the last two years. We were in the North part of Hungary in *Jósvafő* (with altogether 200 of you), we visited *Pécs* in the South (with 50 students), we traveled to *Hortobágy* – Puszta in the East (with 50 students again) and we had a trip to *Sopron* in the West (with 100 students). We have also been to the heart of Hungary when we flew by hydrofoil to *Solt* to see the old traditional Hungarian farm (with 110 of you) or when we tasted the famous wine in *Eger*.

We visited eleven cities, two castles, five churches, three cathedrals, eleven museums, and an amazing drip stone cave, listened organ concerts twice in cathedrals, and we had lunch together in eight restaurants. The Brazilian students saw two balett performances in the Hungarian State Opera (80 students), five operas at the Erkel Theatre (150 students) and a musical in the Operetta Theatre. You could see our Parliament Building from the inside (30 students) and we hosted the program „Hungarian day for foreign students” at BME (for 100 students). Wherever we had been I have never heard a bad word about your behaviour from the Hungarian people. You were polite, nice, but intense, sociable and talkative. You tolerated if we had to wait for your fellow students, you accepted if we couldn't take photo in the museum, and you followed my suggestions for what you have to wear in the church. You were satisfied with the lunch and I guess we were a very good company together. You understood that as your future guide I had to know everything you wanted during the trips because I coordinated your wishes. My goal was always to make you happy and so our days could be useful, enjoyable, perfect and happy if we cooperated. And we did.

Just remember, we walked on the main square in Pécs from the Vasarely museum to the restaurant and next to the mosque many teenager girls ran to us with the sign: „free hug”. They were funny, laughed a lot and enjoyed the situation. We turned to them, gave them hugs and the feeling was amazing. Then I looked at you, there were many beautiful pretty girls, good-looking, handsome boys from the other part of the Earth hugging unknown Hungarian girls and both side were happy and very similar. This what peace in the world means. I was very, very proud of you. They are my girls and they are my boys – I thought. I felt that I am your mother on that day who wants to realize your wishes because you deserve them.

Coming home on the bus you were satisfied and very tired after the active day, full off many wonderful experiences. You were quiet. Do you know who is the best Brazilian student? The one that's asleep. ☺ You slept in different positions until we reached the university like children from the kindergarten.

Just to remind you here I share with you my memories.

In your first semester, we visited *Sopron* in the West of Hungary and some other cities as well. I hope you will not forget the beautiful cathedral in *Pannonhalma* on top of the hill. Walking around in Fertod, which is very similar to Versailles, is also an amazing memory. Then we went up to the fire tower in Sopron from where the view was wonderful. You never will forget the lunch in the "*Kantár*" restaurant in *Vitnyéd* and the beer in Sopron. In that early morning in front of the building R where we met and stood by the bus, one of you guys came up to me and asked: „when do we taste wine or beer today?" I had to reply the truth: „it is not your day today because we will visit a cathedral, a church, a palace and several interesting buildings but not wine cellars. But I didn't tell you that we were to visit Sopron that day where there was a festival in the main square where you could of course taste anything you liked. At the end of the day we stopped for a while on the Austrian-Hungarian border, at the memorial of the day when the „iron curtain" disappeared. We took many photos and it felt funny for you to have one of your legs in Hungary and the other in Austria.

The following week, we traveled to *Hortobágy* to visit the Hungarian plains again, called „Puszta". It means there is no river, no hill, only the flat space, dry soil and the animals. Although we couldn't see the famous „mirage", we enjoyed the view from the horse carriage. There were huge buffalos, beautiful horses, sheep and pigs on the field. Then we went to the *Lake Hortobágy* by a small train and we observed many different kinds of birds on the lake through our binoculars. The weather was just perfect sunny and breezy. We could sing Hungarian songs with the Gypsy band in the *Csárda* next to the *Nine-Hole-Bridge*.

In the second semester we travelled by two busses to *Jósvafő* that is in the North-east of Hungary. Under the small old village there is an amazing drip stone cave. Our tour in the enormous cave took 100 minutes and we saw the wonderful products of many millions of years. Do you remember the short concert in the huge „theatre hall"? We listened to the lovely music in total darkness and drop stones appeared with a flash. During the lunch we shared our memories and sang again from our booklet. We enjoyed the sightseeing by the horse carriage in the traditional village where the houses were older than 150 years. The horses ran into the clean stream. The guide told us that scientists wanted to check its source so they poured red paint into the water and after a while the coloured stream appeared outside in the village.

We saw the Largest Book in the World as well. It can be viewed inside the beautifully renovated water mill complex in the town of *Szinpetri*, which also falls within the territory of *Aggtelek National Park*. We visited the water mill housing it is unique for being the only paper mill in Hungary where visitors can make their own paper. After years of creative labour, the book entered the Guinness Book of World Records on March 21, 2010. The book measures 4.18 (almost 14 feet) by 3.77 metres (almost 12.5 feet), contains 346 pages, and weighs 1420 kg (3124 lbs). We went into the *Gutenberg Museum* hosted in the same building that features a large collection of illustrated Bibles, printing presses and apparatus, and paper making lore.

Our last trip was to *Pécs*. On the bus you got your sandwiches and we drove on the highway through the tunnels. Pécs is a lovely historical city on the south of Hungary and it was *European Capital of Culture* in 2010. First, we went into the Cathedral where we listened to a short organ concert. Then we visited three museums there. *Zsolnay* pottery museum,

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the museum dedicated to the famous Hungarian painters, the *Csontváry* Museum and the *Vasarely* Museum. After a delicious lunch with wine tasting from Villány we walked through the down town.

In April I also organized a brand new program for you. In the afternoon we met in the Goldmann restaurant. The first part of the program was called the „Hungarian day for foreign students”. You participated in an interactive performance on the Hungarian history in the 10th century when the Hungarians conquered the Carpathian Basin. The second part of the afternoon was dedicated to learning Hungarian folk songs. You were very enthusiastic so we could troll. Then you tasted the gulyás soup and our fánk. This event was after Easter so we wanted to share with you the Hungarian traditional Easter folk custom, especially the sprinkling.

The two, most known customs of Easter are the “sprinkling” and the egg-painting. Both are very common in both urban and rural areas, among people of every age-group. A couple of decades ago men poured water on women and women changed their clothes after each sprinkling. Boys often dragged girls to the well and poured water on them with pail. The possible reason for this very old tradition is that people believed in the cleaning, healing and fertility effect of water. Nowadays, men sprinkle with cologne, and not with water. The men greet girls and women with shorter or longer poems (mostly with a funny poem about the “Eastern sprinkling”) and sprinkle them with cologne. Women must be well-prepared, they treat men with dessert and beverages - and with their hand-painted eggs.

So, during the show you listened to special Hungarian easter poems that were told by the boys to the girls. The gentlemen then sprinkled the ladies and got red chocolate eggs.

As a follow-up, in the last section of the event you could even try Hungarian folk dances. Some of you were very brave and danced on stage for small presents.

In the evening as the second part of the „Hungarian day for foreign students” we had a concert in the ceremony hall. The orchestra came from the *Ghent University*. The program of the symphonic orchestra was, *Brahms’ Hungarian Dance*, and *Bartók’s Dance Suite*.

In the very beginning when I offered a programme for you I prepared a form and you had to fill it out. I asked your name, the faculty, Neptun code and some additional data. Very often you didn’t know the name of the faculty and you wrote BME. I could check it in the Neptun though or on my list but I asked it again because I wanted to help you to memorise it. You can not go home without this. I invited you to the trips, to theatres, to the Parliament and we had many e-mails between you and me. But last time when I organized the event „Hungarian day for foreign students” I wrote only a short message: you know what to do and how to do it. And you did.

I am very glad that we met and I was able to show a tiny piece of our culture and country. I wish you all, all the best in life, success in your professional career, happiness in your private life and I hope you will come back to Hungary with your friends or with family of your own.

Viszontlátásra Magyarországon!

Valery Balogh
International Referent



As a souvenir, here are a few photographs from our bridge-building competition and our professional trip by boat.

Dr. László Gergely Vigh
Course Director
Faculty of Civil Engineering





The arrival of the Brazilian students and their passage through the well-trodden doors of this University has greatly influenced my views on how to teach architecture. Their life experience is less likely to be moulded into the traditional, rational, well-known and accepted blueprints of the European continent. It is an age old question of humanity whether a perfect balance exists between practical thinking and emotions. This is an important issue in a field which neither wholly belongs to the world of art nor to the world of science, rather floats in between or—dare I say—above.

During any kind of design process, be it architecture, environmental planning or object-design, the true goal is creation itself and finding harmony between the tools you use and the desired outcome. As to the meaning of this highly sought-after harmony, it is impossible to establish one definition. The great Greek gods could not define harmony, let alone us, being mere humans. However, our young Brazilian friends have opened up new horizons into our understanding of the concept. Their honest, spontaneous, whole-heartedly embracing and passionate approach has enlightened our understanding of this harmony.

This observation was readily apparent during the last conference as well. In most cases, the Brazilian students were much more interested and fascinated by the process of creation and its delights, by the problem itself and the possible solutions, rather than the actual output of the whole process.

To say farewell is always sad, but getting emails with news from Brazil is really nice and it shows me that the last two years together were more than a traditional education between students and tutors. Much more...

Adeus, tchau!

Dr. Zoltán Schrammel
Faculty of Architecture



Katalin Butt-Bethlendy with her fantastic class of Brazilians

March-April 2014





These six months were an amazing experience also to us, teachers. I was particularly impressed how open our Brazilian students were to Hungarian history and culture: they danced Hungarian dances, explored Tihany, Ópusztaszer and many other sites with us, asked many questions about the past centuries. Already at a beginner's level, they managed to have conversations at a copy shop or ordered themselves some sajtos-tejfölös lángos at the Central Market Hall in Hungarian:). I hope they will always remember Hungary and Hungarian people with a warm heart -- and I hope I will often have students like them!

Anna Veres
BME School of Languages





Arriving to a country that one never ever visited before - that is not just an exciting opportunity of a new experience but also can be a scary challenge. The Centre of Modern Languages hopes that we did our best to make our future students' life easier from the first day of their year at BME. We also hope that some day you will return to Hungary either by yourself or with your friends and family. The memorable moments will be preserved in our hearts, so what can be better than to say: Viszonzlátásra!

Virág Haraszti
BME School of Languages



„So far, the CsF program was an extraordinary experience to our faculty. My colleagues will cherish the memory of the first large group of Brazilian students who spent two semesters with us, attended lectures, participated on laboratory exercises and worked on projects. We learned a lot during this year and your open-mindedness and motivation did set high the expectations towards the next groups to come. Thank you for choosing BME and the Faculty of Electrical Engineering and Informatics.”

Üdvözlettel,

Dr. Bálint Kiss
Course Director
Faculty of Electrical Engineering and Informatics



True partnership bears its fruits

The Faculty of Mechanical Engineering had been preparing for the first round of Science without Borders students with great enthusiasm. This was as late as 2013. At the beginning of 2015 the second Brazilian lot is leaving BME and Hungary with a huge pack of colourful experiences as gifts and benefits of life. This is your job to look into and calculate with your losses and profits, and become a new and better character in this process. We have always been happy with you being with us – equally through simple arrangements and crisis situations.

Be good ambassadors of BME, and speak to your Brazilian fellows about all you have had here, however, always stick to the truth.

Wish you well with your academic and professional career and private life in general. BME always gets you happily if you ever happen to return to Hungary on some occasion.

See you next time!

Eszter Kiss
International Coordinator
Faculty of Mechanical Engineering



I keep good memory of all my students who joined my courses. Particularly Laura Pinheiro Nichele and Gustavo da Silveira Gomes who spent a whole year with us working on their Individual projects.

Dear Laura and Gustavo,

It was really nice to have you in the Surface Chemistry Group for a full year. We hope you enjoyed your work with us in the same way as we did.

You will remain the corresponding member of our group. We hope to hear from you in the future.

*Balázs, Barbara, Dániel, Eniko, Krisztina
and the whole
Surface Chemistry Group*



First of all I would like to tell you how amazing is that You made it. You really made it. How amazing is, that you were brave enough and came here to Hungary, mostly alone, and went threw on this long way, even if you did not really know what to expect.

All of you should know that, how huge thing is that you spent one whole year so far away from your family, and during this time you became more, than you were before: you had to decide alone, you had to take care about yourself alone, you became an adult. As I can tell it, You did it well. You became more: You came here as one person, but you go gome as an other person.

You became an independent young man and woman, you made great friends all over the world, you visited beautiful and unforgettable places, made adventures, you gained much amazing experience threw the university, studies, classes, internships, parties, and travellings. With time you may forget some part of the experience, but it is something that nobody can ever take away from you.

So all I can ask you is to think back to the very first day of your journeys, and appreciate each day of this amazing one year, and even of the dark days that may happened to you, remember to this one year as one of the greatest so far! ☺

Is I know, many of you want to stay, or try to come back to this beautiful country, which is made me feel appreciate this country much better than I did before.

I wish you safe travelling back home, great reunion with your families, and I wish all the best for you for the rest of your lifes, and most of all, I wish you to be proud of what you made, that you were here in Hungary, in Budapest, in BME, and that you made it!



Zita Csaba
Member of the
Mentor Team

Farewell speech on behalf of the Brazilian students at BME

by Otávio José Dezem Bertozzi Junior

June 29th, 2015



Good Evening,

It is an honour to be here tonight in such a special Ceremony, among students, professors, staff, tutors and many other friends sharing this unique moment.

But first, it is absolutely necessary to thank those without whom we would not be here:

To CAPES and the Government of Brazil that, investing in the academic and cultural enrichment of the youth, try to build a better future for all of us.

To the Hungarian Rectors' Conference, Kitty, Julia and Fanni; who, like angels, looked over us even before we actually met, guaranteeing that every little detail would always go perfectly right.

To all of BME professors and staff that, enlightening our journey with knowledge and professionalism, saw in each and every one of us potential of growth.

To our Tutors that, students like us, but with an insider's view from the university and the country, could help anytime we needed.

To Valéria that, with the care of a loving mother, arranging, among many other things, Road Trips, Opera and Ballet seats, always did her best so we could have the best.

To our friends and families that encouraged us to take this huge leap of faith and, anxiously waiting for our return, will delightfully cheer with us this victory that is also theirs.

Well...

I spent several minutes staring at the blank paper before I could write a single word. Do I lack what to say? Undoubtedly not. I was just resisting to accept the fact that, facing this inevitable goodbye, I would have to summarise in a few paragraphs a whirlwind of memories, feelings and ideas that arise inexplicably around this amazing year.

No turning back now... It is just a matter of time before many of us are back to Brazil. Back home! Home? Where is home? It is difficult to suddenly accept that Budapest may not be

our home anymore.

It is true! When one looks around and sees the shining glances and joyful smiles on all of our faces, this certainly proves I'm neither lying nor exaggerating on what I say. Budapest is already part of how we speak, how we live, how we love, who we are.

This remarkable journey taught us something wonderful: with faith and willpower, there is not one single place in the world we can't conquer and be happy.

Budapest gave us, among many other things: experience, culture, fun, responsibilities, knowledge and, above all, the gifts of independence and freedom.

Material souvenirs may rust and get lost with time, but deep in our hearts and minds, we will take with us, to the last of our days, all the memories, stories, friendships, in some cases, even loves as inexorable gifts given to us, because what we saw, heard and felt, cannot be taken away from us, by no one. We, however, may kindly share it with others, hoping that our enthusiasm may encourage them to follow their dreams and live adventures of their own.

For now and on, Hungary won't be just a flag, a national anthem or another country in a map, but a bunch of people, places and memories that fill our hearts and minds with joy, love and the desire to meet again.

Our show must and will go on. But for now, thank you very much, and may this "good bye" be just a "see you soon".

Greetings! My name is Otávio, I'm 21 years old and I am from Brazil. Budapest is a city that truly surprised all of us. From its amazing history and magnificent architecture to its fantastic nightlife, everything that we experienced made it unforgettable. I would like to thank once more everyone who trailed this path along with us. Budapest would not have been so fantastic without each and everyone of you. Best wishes for all of you, good bye.

Üdvözlök Mindenkit!

A nevem Otávió, 21 éves vagyok és Brazíliából érkeztem. Budapest meglepetés volt mindannyiunk számára. Kezdvé a bámulatos történelmétől és pompás építészetétől a fantasztikus éjszakai életig minden, amit tapasztaltunk felejthetetlen. Szeretnék még egyszer köszönetet mondani azoknak, akik egyengették az utunkat. Önök nélkül Budapest nem lett volna ilyen fantasztikus.

Minden jót kívánok!

Viszontlátásra!



About the Budapest University of Technology and Economics

The Budapest University of Technology and Economics (BME) is proud of its more than two-hundred-year tradition of excellence in engineering education. It has developed into the largest institutions of higher education in Hungary and is one of Central Europe's most important research centres. The university considers scientific research and development of equal importance not only to its educational activities, but also to economic and social development.

The university takes special pride in the contributions made to science, engineering and culture by its faculty, graduates and researchers. The "elite-research university" status and award was given to the BME by the Ministry of Education and Culture, on 16th April, 2010.

Several **Nobel Prize laureates** have been associated with the BME:

Dennis GÁBOR	(physics),
Eugene WIGNER	(physics),
György OLÁH	(chemistry)

Notable personalities have also studied or taught at the BME:

John von Neumann	inventor of the computer,
Edward Teller	nuclear physicist,
Leo Szilárd	known for his work on nuclear chain reactions,
Marcell Breuer	architect,
Theodor von Kármán	aerodynamic scientist,
Ernő Rubik	inventor of the famous "magic cube"
Donát Bánki	co-inventor of the carburetor
Károly Zipernowszky	one of the inventors of the transformer
Dénes Mihály	one of the inventors of television

Today, 77 departments and institutes operate within the structure of eight faculties. Seven knowledge centres have been established. About 1.100 lecturers, 400 researchers, other degree holders and numerous invited lecturers and practicing specialist experts participate in the education and research at the BME.

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Approximately 800 of the university's 24 000 students are from 50 different countries. The BME issues about 70% of Hungary's engineering degrees.

The Goal of the BME is to graduate professionals who are capable of high-level creative work, who can organize and supervise production and infrastructure, and who are qualified to perform scientific research, participate in technical development, solve engineering problems and implement solutions. In additions to educating engineers and economists the university provides continuing training through:

- undergraduate programs in engineering and in business and management
- graduate programs in engineering specialization and in business administration and management
- refresher courses to inform practicing professionals about new scientific developments which affect their works
- Ph.D programs, guidance and instruction for scientific research fellows.

Faculty of Civil Engineering

The **Faculty of Civil Engineering** is the oldest Faculty of the Budapest University of Technology and Economics and can trace its history back to the University's predecessor, the *Institutum Geometricum*, founded by Emperor Joseph II in 1782. In the past 232 years, thousands of engineers have graduated from this Faculty to work worldwide as educators, international researchers and engineering project managers. The most essential service of the faculty - education linked closely to research and engineering work - is reflected in the scientific activities of nearly 140 engineers in 10 departments. They have contributed significantly to the scientific solution of diverse engineering problems. Out of the approximately 2300 students, who study at this Faculty, yearly 50-100 students from abroad participate in the English language program.

The BSc engineering program in English leads to a BSc degree in four years, in the Branch of Structural Engineering. The branch offers specific educational objectives: Graduates from the Branch of Structural Engineering create engineering structures by utilizing and designing structural materials. They are expected to design, construct and organize the investments of mechanically, structurally and technologically complex structures in cooperation with architects and transport and hydraulics specialists. Future structural engineers who graduate from this branch will be able to design and construct, among other things, flyovers and underground passages for traffic networks; power stations, cooling towers, crane ways, transmission line structures and TV towers; halls, storehouses, industrial plants, and multistory buildings as well as hydraulic engineering and water supply structures.

A new MSc course in Computational Structural Engineering was launched in September 2012. This MSc course provides advanced knowledge of structural analysis using modern computer techniques, including the theoretical background of the methods. This course might be useful not only for those who are interested in research and consider continuing doctoral studies, but for leading engineers of the future: practicing engineers facing special structural problems.

Faculty of Mechanical Engineering

The Mechanical Engineering Programme at the Budapest University of Technology and Economics began in 1863, and the Faculty of Mechanical Engineering was established soon afterward, beginning official operations in the academic year 1871-1872. The Faculty is justly proud of its continuous, progressive and more than 140-year history and now offers undergraduate and graduate programs in both Hungarian and English.

For more than five years, the Faculty of Mechanical Engineering has offered a 7 semester undergraduate BSc degree program in English. The new two-year graduate program in English, leading to an MSc degree started in February 2009, and students can start their study

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either in the fall and in the spring semester. Individual postgraduate academic and research programs, which are usually completed in three to four years, are available for those who already have an MSc degree and wish to pursue a PhD degree.

The undergraduate BSc program of the Faculty of Mechanical Engineering is designed to continue a tradition of excellence by:

- providing well-grounded and broad knowledge that graduates of this Faculty can apply immediately in their work and also use as the basis for further studies; and
- graduating competent engineers who are not only masters of their profession, but also possess an ethical philosophy of engineering based on accuracy, punctuality and reliability as well as a respect for the human element.

The goals of our MSc and PhD Programmes are as follows:

- to train creative, inventive mechanical engineers who can apply the engineering skills and the knowledge they have gained from the natural sciences on a state-of-the-art level; and
- to foster the development of leaders in engineering research and development.

The courses in the Mechanical Engineering Modelling MSc-programme deal with those time-dependent problems of mechanical engineering, which typically require the efficient modelling of tasks in order to access the continuously developing methods of computational engineering. As the joke says: 'One designed by a civil engineer starts moving that is bad, one designed by a mechanical engineer does NOT move that is bad, too.' Modern computational methods are very popular since they show their easy-to-use interface for engineers. This often causes misunderstanding and disappointment during the naive applications of engineering software. Computational methods are reliable if they are properly tested and the principles of their applied algorithms and procedures are understood. This is analogous to the modern cartoon industry: the 25 pictures of one second of a cartoon can be drawn by computers if the first and the last picture of that second are designed for them by the artist but the computers will totally fail if they have to draw the cartoon without any reference picture, or based on the first (or last) picture only.

The tasks of mechanical engineers that typically require the modelling of machines in motion and that of time-varying processes are based on solid and fluid mechanics, thermodynamics and electronics. Modelling means the understanding and active application of the related theories, which are supported by differential equations and numerical methods in mathematics. Modelling needs also experimental work during the research-development-innovation process in case engineers do not have enough information about the motions and processes they want to capture by a model. Finally, modelling is also affected by the engineers knowledge in design, technology, and informatics, since the model should not be so complex that the available software is unable to solve them within reasonable time and for reasonable cost.

The above principles affected the formation of this master course. After the brief summary

of the required fundamental courses (mathematics, mechanics, thermodynamics, electronics, control and informatics), the students have to choose a major and a minor specialization from the following list of modules:

1. Solid Mechanics 2. Fluid Mechanics 3. Thermal Engineering 4. Design and Technology

The possible combinations provide flexibility among more research oriented knowledge (combinations of the first 3 modules), and the development oriented one (major from modules 1-3 and module 4 as minor or vice versa).

This course is running in English only. It is based on the foundations provided by the long-standing positive traditions of some former successful courses of the Faculty of Mechanical Engineering at BME.

This course is also compatible to many master courses in mechanical engineering in the European Union (see, for example, U Bristol, U Bath, ENS Cachan, TU Karlsruhe, U Hannover, TU Munich).

Our Faculty offers its engineering education excellence rooted in, and being fully aware of its unique position of training decision makers, and technological leaders of tomorrow. Our aim in the course of the training is to qualify our graduates to perform as competent problem solvers, good communicators, excellent team workers, successful project leaders, and - above all - ethical participants of the world around them – both locally and globally.

Faculty of Architecture

The **Faculty of Architecture** at the Budapest University of Technology and Economics focuses on training highly professional experts in architectural engineering who are aware of the social and cultural implications of their profession. Versatility is emphasised so that students will gain fundamental knowledge and abilities in every possible field of architecture and be able to find work in a highly competitive job market, and in any building- or design-related area of consulting, construction, and management. The 5-year programme in English leads directly to an MSc degree in Architecture and Architectural Engineering (Dipl. Ing. Arch.), but it is also possible to graduate as a Bachelor of Science in Architecture.

Graduates of the Faculty of Architecture are qualified for a broad spectrum of architectural occupations:

- Design, construction and maintenance of residential, public, industrial and agricultural buildings;
- Reconstruction and the preservation of historical monuments;
- Urban design and settlement planning; and
- Administration of all these activities.

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The curricula were organised on Swiss and German models. The Faculty has maintained these traditions for the last 40 years but provides additional European and international dimensions through guest lecturers from abroad, topical short courses, workshop seminars and exchange programmes.

The five year programme of the Faculty of Architecture taught in English is in full conformity with the five-year program provided in Hungarian, which after two years practice and experience is accepted for access to EUR-ING title.

Academic Program of the Faculty of Architecture: BSc/MSc Studies

The two-level B.Sc, M.Sc training in the English speaking section of the Faculty of Architecture is realized in a split-up system, in full conformity with the Hungarian speaking section. For B.Sc degree students has to accumulate min 240 credit points, for M.Sc degree min 300 credit points by accomplishing the obligatory subjects and gathering the remaining credit points by accomplishing elective subjects too. B.Sc degree can be obtained in a minimum of four years, M.Sc degree in a minimum of five years of study.

Students, both international and Hungarian, who have a command of both languages can choose from either programme. The participation of Hungarian students in the programme given in English has obvious advantages. It eases the integration of international students into the society, which surrounds them during the years of their studies. It also attracts students from European, American and other universities world-wide to study in Budapest within the framework of the International Student Exchange Programme and other agreements.

Hungarian students likewise gain the opportunity to study at schools of architecture abroad. These exchanges will become a powerful factor in achieving real convertibility among educational systems world-wide and, eventually, mutual international recognition of degrees.

Master's Programme

Students who have earned BSc degrees in other schools of architecture can join the Master's Programme. Programmes will be tailored to their previous education and special needs. In general they are admitted to the last two years of the five years program, and they have to collect minimum 120 credits. These studies encompass a wide range of complex design topics and elective subjects grouped in three directions:

- Structural Design - buildings and other structures.
- Architectural Design - buildings with different functions, their interiors and surroundings; the preservation of historical buildings.
- Town Planning - urban design, settlement planning and management.

Faculty of Chemical Technology and Biotechnology

The education of chemical engineers and chemists has a long-standing tradition in Hungary. Hungary's earliest chemistry department was established in 1763 at the Selmechánya Mining School, the first school to offer practical instruction in the chemical laboratory. In 1769, a common department for chemistry and botany was founded at the University of Nagyszombat, which was resettled to Buda in 1777, and later to Pest. In 1846, the Department of General and Technical Chemistry was founded at Joseph II Industrial School, one of the Budapest University of Technology and Economics's predecessor institutions. Education of chemical engineers, separate from that of mechanical and civil engineers, reaches back to the academic year 1863-1864.

The Royal Joseph Polytechnic became a technical university in 1871. The academic freedom granted by this university-level status allowed students to freely select the subjects they wished to study. However, the need for an interrelated, logical sequence of subjects soon became evident, so in 1892 a compulsory curriculum and timetable was introduced. From the foundation of the Faculty until 1948, only a four-year-term of studies, without specialisations, was offered. Following the educational reforms of 1948, the departments of Inorganic Chemical Technology, Organic Chemical Technology, and Agricultural and Food Chemistry were established. The Inorganic Chemical Technology Department is no longer a part of the Faculty because in 1952 its tasks were taken over by the University of Chemical Industry in Veszprém. Further reforms in the 1960s extended chemical engineering studies to the MSc level and introduced the range of specialised studies identified below. A PhD programme has also been established. Studies in English at the Faculty of Chemical Engineering began in the academic year 1985-1986.

Students in the BSc program receive a thorough introduction to areas basic to chemical engineering before they begin their specialisations in the fifth semester. Courses of the following branches are available to students depending on the number of applicants (at least 3 applicants) both at the BSc (7 semesters) and MSc (4 semesters) levels:

- Analytical and Structural Chemistry
- Chemical and Process Engineering
- Industrial Pharmaceutics
- Polymer Technology
- Textile Technology

The Faculty of Chemical Technology and Biotechnology aims for its students to acquire a profound theoretical knowledge in mathematics, physics and physical chemistry. It also aims to have its students experience, during their studies, all the types of tasks that chemi-

cal engineers encounter in their practical everyday work.

Students will acquire up-to-date laboratory skills, get acquainted with the machines and apparatus used in the chemical industry, know the principles needed for their optimal operation, and develop expertise in a more specific technology within the chemical, food and light industries. Graduates of this Faculty will be versed in:

- The operations and personnel involved in chemical processes on an industrial scale,
- The development of the technology and products of industrial chemical processes,
- The design of industrial chemical processes,
- How a chemical product or application is introduced into the national economy, and
- The elaboration of new chemical processes, operations and technologies.

Faculty of Transportation Engineering and Vehicle Engineering

The **Faculty of Transportation Engineering and Vehicle Engineering** (founded in 1951) has been training engineers in the fields of transportation, vehicle engineering and logistics. Actually, conforming to the linear, there are three basic specifications:

- BSc in Transportation Engineering,
- BSc in Vehicle Engineering,
- BSc in Logistics Engineering,

As the second stage of the linear training courses (BSc), there are three master training courses (MSc) in the same fields, i.e:

- Transportation Engineering master specialty,
- Vehicle Engineering master specialty,
- Logistics Engineering master specialty.

With adequate BSc qualification certified engineering qualification (MSc) can be obtained in 2 years at these master training specialties. All the fundamental and complementary educations continued at the Faculty are carried out in accordance with the rules of the ECTS (European Credit Transfer System). The quantity of students' labour necessary for attaining the knowledge material of an arbitrary subject is measured through credit-points. One credit-point means on average 30 hours of student's labour, one study semester contains a study material with the quantity of 30 credit-points.

Faculty of Electrical Engineering and Informatics

The **Faculty of Electrical Engineering** founded in 1949 has been renowned for excellence in research and education throughout the years of changes in the scope of engineering. Over this period, the faculty has earned a wide-spread international reputation for its high academic standards and scientific achievements.

Spearheading the movement to establish a modern education system, it has offered a comprehensive English curriculum since 1984. In 1992 the name of the faculty was changed to **Faculty of Electrical Engineering and Informatics** in order to give recognition to the growing importance of computer science. The education programmes in English include a 3.5-year BSc, a 2-year MSc and a 3-year PhD programme in the fields of electrical engineering and engineering information technology.

The undergraduate **BSc Programme** (7 semesters) aims at providing a comprehensive knowledge with sound theoretical foundations in two areas: (1) Electrical Engineering including more specific studies in electronics, computer engineering and power engineering; and (2) Engineering Information Technology dedicated to the major domains of computer science. The major specializations in Electrical Engineering are infocommunication systems, embedded and controller systems and power engineering. Studies in Engineering Information Technology include specialization in infocommunication and software technology. Each specialization contains three courses focusing on the field of interest followed by a laboratory course and a project laboratory. In order to pursue studies in a given specialization the number of students must exceed a certain threshold, otherwise the interested students are kindly directed to another specialization.

The **MSc Programme** (4 semesters) advances the knowledge in the following fields: (1) Electrical Engineering, offering specializations in (i) embedded systems, (ii) infocommunication systems, and (iii) electrical machines and drives; (2) Engineering Information Technology, offering specializations in (i) applied computer science, and (ii) system development; and (3) Business Information Systems, offering specialization in (i) Analytical Business Intelligence.

The post-graduate **PhD Programme** is available in all domains offered in the MSc programme.

Since research and development requires innovative engineering expertise, one of the major concerns of the faculty is to endow students with high level mathematical skills in modeling complex engineering systems. This objective implies the use of system and algorithmic theory in addition to a thorough knowledge in physics. The search for optimal solutions in the highly complex architectures of electrical engineering and engineering information technology necessitates not only engineering but economical considerations,

Budapest University of Technology and Economics

as well. As a result, the scope of the programme must include design, research and management expertise at the same time.

Several strategies have been designed to help students develop high level skills in mathematics, physics, and computation. Besides theoretical knowledge they need to carry out design and development activities in the field of communication, instrumentation, and power industries to further perfect their practical skills. The curriculum also includes solving tasks in the fields of production and operation.

Scientific groups are formed to encourage the students to do independent but supervised laboratory work. Project laboratory is one of the core parts of the studies which are dedicated to independent problem solving with the armoury of modern work stations and software packages. The expertise of handling these tools are inevitable in pursuing an engineering career.

In order to strengthen the transfer of knowledge and know-how between the university and industry, the faculty maintains close contact with well known multinational companies in the field of communication and computer industry. As a result, many industrial experts offer their experience and knowledge as part-time lecturers, project supervisors, members of examination committees.

Faculty of Natural Sciences

The **Faculty of Natural Sciences**, one of the newest faculties at the Budapest University of Technology and Economics, was established in 1998 and now employs 196 full and part time faculty members. The Faculty provides classes in Physics, Mathematics and Cognitive Science and is designed to meet the needs of its own and other faculties.

Courses are offered on BSc and MSc degree levels. The Faculty provides post-graduate scientific training as well. Currently more than 65 PhD students are pursuing personal programs in different areas of sciences. The Faculty also offers short courses on specific topics of current interest. The Faculty of Natural Sciences administers its own BSc and MSc/MA programs in Physics, Mathematics, Applied Mathematics and Cognitive Science. A continuing educational program is also offered in Reactor Physics and Reactor Technology. For many years the "Eugene Wigner International Training Course for Reactor Physics Experiments" has also been organized on a yearly basis.

The BSc in Physics Programme, a traditional curriculum, leads to a BSc degree in 6 semesters (currently available only in Hungarian). The facilities and scientific-tutorial background of the Institute of Physics and the Institute of Nuclear Techniques offer unique opportunities in areas like low temperature physics, acousto-optics, holography or the nuclear training reactor. A further advantage of our Physics BSc Program is the engineering background provided by the Budapest University of Technology and Economics. Two specializations can be chosen: "Physicist" and "Applied Physics".

In another 4 semesters an MSc in Physics degree can be earned; courses are given also in English. This program provides comprehensive knowledge, built upon strong theoretical and experimental bases in four areas of specialization. Students who choose the specialization “Research Physicist” get acquainted with theoretical tools of modern physics and with state of the art experimental methods. Students in specialization “Applied Physics” study material testing techniques, material science, optics and R&D skills. Graduates from the specialization “Nuclear Techniques” may become professionals in energetics, radiation and environment protection. The specialization “Medical Physics” transfers knowledge of creative use and development of modern medical instruments. A post-graduate PhD programme in Physics is available in all domains offered in the MSc programme. The BSc in Mathematics Programme, a traditional curriculum, leads to a BSc degree in 6 semesters (currently available only in Hungarian). In the fourth semester students are offered two options: specialization “A” Theoretical Mathematics is recommended to those who are interested in a deeper understanding of some branches of mathematics and in doing theoretical research and are probably going to continue their studies in a Mathematics MSc Program. Specialization “B” Applied Mathematics is recommended to students who are eager to apply their knowledge in industry or finance. Therefore, we have prepared courses related to information technology, economical and financial mathematics, or technology. Graduated students from either specialization are allowed to continue their studies in one of our Mathematics Master programs.

In another 4 semesters an MSc in Mathematics or MSc in Applied Mathematics degree can be earned. A large variety of subjects are offered in the MSc in Mathematics Programme, covering the topics algebra and number theory, analysis, geometry, probability theory and statistics, discrete mathematics, operations research. There is a large flexibility in choosing subjects according to the personal interests of the student.

From the available subjects we also offer two specializations called Analysis and Optimization. Students of the MSc in Applied Mathematics Programme choosing the “Applied Analysis” specialization will meet applications of mathematical analysis in natural sciences, finance and industry. Graduates from the “Operations Research” specialization are able to create models for problems in controlling systems or optimization. Students who specialized in “Financial Mathematics” can analyse financial processes or insurance problems and are able to interpret the results. Graduates from the “Stochastics” specialization can recognize and study random laws in various phenomena. The language of courses of the specializations “Financial Mathematics” and “Stochastics” is English.

MSc in Cognitive Science aims to train researchers skilled in complex analysis of human cognition and knowledge relying on the methods of science. Students may complete courses in all major domains of cognitive science including cognitive psychology, neuroscience, linguistics and the philosophy of science. Students will be equipped with both theoretical knowledge and practical skills such as statistical analysis and research ethics. Graduates will be able to carry out research in various areas of cognitive science combining theoretical insights and methods of biological (neuroscience, experimental psychology, developmental studies), and formal (mathematics, logic, philosophy of science, linguistics) disciplines. Graduates’ competences allow them to undertake doctoral studies, and to work in a variety of applied domains including medicine, biotechnology and education.

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Continuing Educational Programme in reactor physics and technology is a four semester program offered to professionals working in the nuclear industry. The subjects include reactor physics, thermohydraulics, radiation protection, radiochemistry, reactor technology, nuclear safety and laboratory experiments.

The Institute of Nuclear Techniques organises - or participates actively in the organisation of - several international courses as well. Worth mentioning are the HUVINETT (HUNGarian VIEtnamese Nuclear Engineering Train the Trainers) courses, where more than 150 Vietnamese educational professionals attended in 2013. Also the participants of the training courses offered by the international EERRI consortium (Eastern European Research Reactor Initiative) perform experiments in the Training Reactor of the BME INT. In this consortium institutes of 5 Eastern European countries cooperate, with the organisatory and financial aid of the International Atomic Energy Agency (IAEA).

Postgraduate programme in Operations Research in four semesters is recommended to professionals - with MSc - who often meet problems related to optimization (economists, engineers, etc.). The program includes theoretical classes (bases of discrete, continuous and stochastic optimization) and practice oriented classes as well (modelling, software packages, algorithm implementation, etc.). In the second and third semester students carry out individual projects which help them to obtain the required knowledge and practice for the future.

Faculty of Economic and Social Sciences

Based on the long tradition of providing education in the fields of economics, management and social sciences, in 1998 the Budapest University of Technology and Economics established a new faculty, the '**Faculty of Economic and Social Sciences**' employing 300 instructors and researchers. Parallel to the traditional five-year university training, according to the Bologna model the two-cycle system (for BSc and MSc degrees) was introduced in 2006. The accredited full time degree programs in Economics, Engineering Management, Communication and Media Studies, Teachers Training in Vocational Fields are carried out according to the latest European standards. Besides its own training programs the Faculty co-operates closely with all the engineering faculties of the University providing courses in management, economics, social sciences, languages and physical education.

Additionally the Faculty offers different kinds of post-graduate programs and short-term courses of various types. Currently more than 100 PhD students are participating in different individual research programs in different areas of economic and social sciences.

The Faculty of Economic and Social Sciences pays special attention to the integration of theoretical and practical knowledge in its curricula and Faculty has established strong professional relationships with the participants of various economic fields (profit and non profit oriented institutions, banks etc).

Education and Research Activities

The total number of participants of different graduate-, postgraduate and distance learning forms of training launched by the faculty is about 6000. The number of full-time students of basic training of the faculty itself has been increasing. Research is conducted in 2 doctorate (PhD) schools.

Languages and International Studies

Dutch, English, French, German, Italian, Spanish, Russian and Hungarian as a foreign language are taught at levels from A1 to C1 by 80 lecturers and language instructors at BME Centre of Modern Languages. Language instruction for Specific Purposes (LSP) as well as translator and interpreter training are also offered by the Centre. Students can sit for nationally and internationally accredited general and specific (LSP for Economics or Engineering) language exams at 3 different levels (B1, B2 and C1) at the BME Language Examination Centre.

The teaching staff of the Centre is actively involved in the Hungarian and Central European Studies programme (for detailed description see the section of Hungarian and Central European Studies).

Physical Education

The University offers a wide range of curricular and extra-curricular forms of physical education. The Department of Physical Education co-operates with the University Sports Club and other student sports organisations.



Opening Ceremony

September 11th, 2014



Tour of Pannonhalma, Fertőd and Sopron

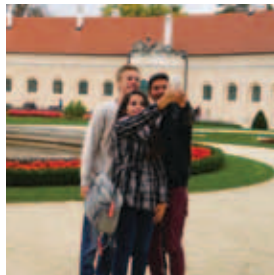
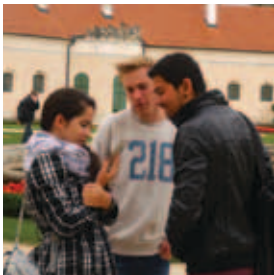
September 27th, 2014



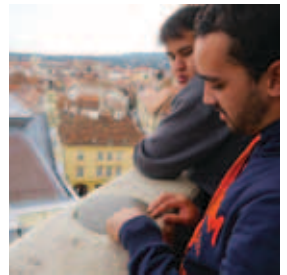
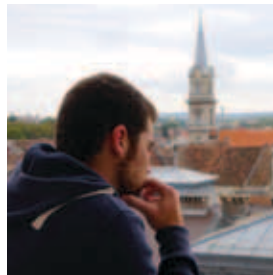


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Trip to the Hungarian Puszta, Hortobágy

October 4th, 2014





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Students' Scientific Conference

Research Paper Competition and Awards Ceremony, November 11th, 2014



Opera Evening

State Opera House, March 7th, 2015



Hungarian Heritage Day and Spring Concert

April 9^h, 2015





Visit to the Baradla Cave System

April 11th, 2015



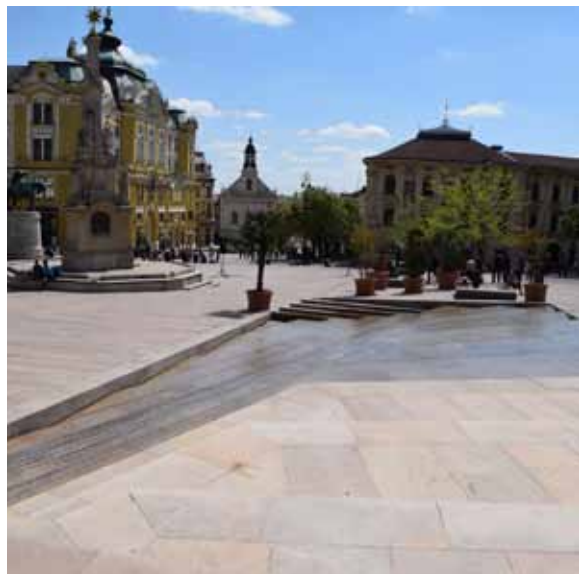






Excursion to Pécs

April 25th, 2015





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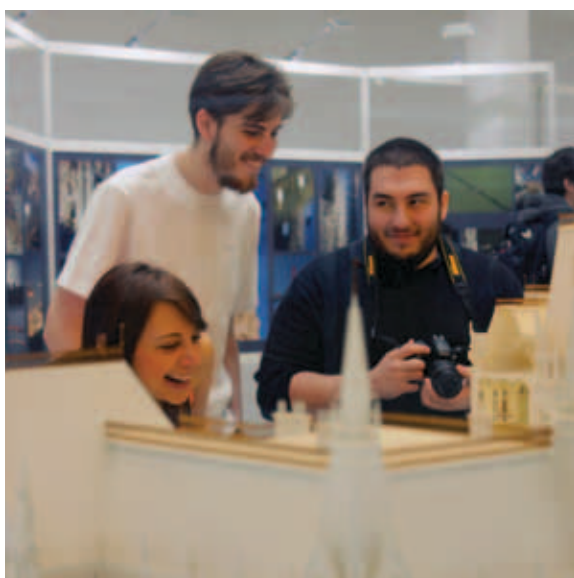
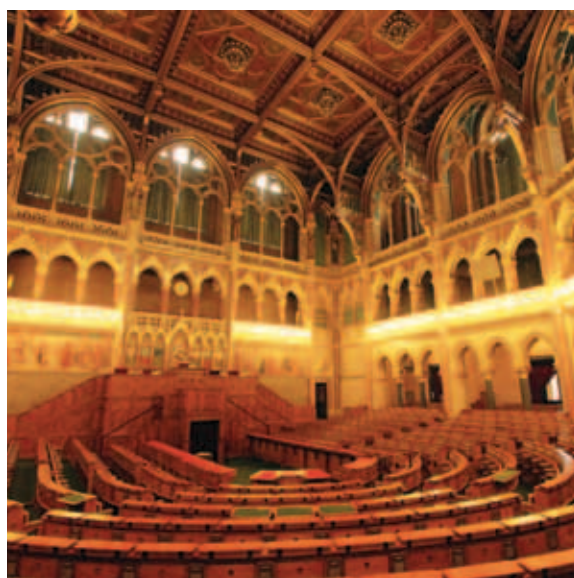




Parliament visit

May 18th, 2014





Science Without Borders Conference

Hungarian Rectors' Conference, June 8th and 9th, 2015





Budapest University of Technology and Economics



Our Year in Hungary

Students' quotes about their stay at BME

I want to thank Mrs Valéria Balogh for all her support and let her know that last year was amazing. All the experiences I had made me a better person. If I had the opportunity again, I would choose Hungary. Keep doing your remarkable job.

Thank you again and hope one day I can visit Budapest many other times, this city that became my second home.

— *Izabella Abdon Siqueira Castilho Ferreira*

I chose Hungary because I thought it might be the only opportunity of my life to know and live in Eastern Europe. I had never heard of Magyar culture before, and from the first moment I searched photos on the Internet, I fell in love with Budapest. I am very grateful to BME for all professional and personal experience I have gained, by moments of study and teachers that I met. I will be forever grateful to all the people I met in Budapest, professors, English teachers and new friends. All contributed to what occurred a deep and significant change in my life. And I have no doubt that Budapest is the most beautiful city I have ever known in all of my life.

— *Amanda Silveira*

“Exchange is not a year in a life; it’s a Life in a year”

With this quote I can summarise my experience in Hungary. All the experiences that I got this year totally transformed me into a better person and better professional. And BME is part of it, so I just can be thankful for all the knowledge that I got here. I chose Hungary because of the quality of life. And then, Budapest became my home, and will be always with me, in my heart, from now on.

— *Vaniele Guimarães Carvalho*

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I chose Hungary because I wanted to know how it was to live in Europe, I researched a little about all the countries and I really liked Hungary, to be more specific, Budapest. I really enjoyed my time here, when I say Hungary and Budapest, there is only one word that comes to my mind "HOME".

I had the best experience of my life here, I learned who to deal with home-sickness, how to deal with different kinds of people...

— *Bruna Correa de Araújo*

It is hard to express how grateful I am for this fantastic year in the amazing city of Budapest. More than an academic experience, this was a great adventure that made me better in many ways. It was a huge honor to be an International Student at BME, sharing all the special moments with people that once were just strangers, but from now on I'll be glad to have as friends. Thank you very much!

— *Otávio José Dezem Bertozzi Junior*

When I chose Hungary, I didn't really know what I could find here. It was a complete shot in the dark. However, after more than one year, I can say, for sure: It was the best decision I've ever made in my life! I've had so much fun and I've made so many friends, more than I could imagine it would be possible. At the university I've seen a whole bunch of different approaches in the way a subject is taught. And of course, I could be in touch with people from different countries, with totally different cultures. I've learnt a lot of thing that I'll, indeed, take to Brasil with me. To sum up, I've had a really great time here and if I had to choose, I'd do everything again!!

— *Rafael Farah*

I can assure you it's been the best year of my life. I've never thought I could sit in a table with people from 5 different countries and laughed with them about the same thing. This kind of cultural experience left me speechless. Also from the experience within the university, being able to study and make a research on the first engineering university on Europe is awesome! It's kind of a challenge, yet still amazing.

In Hungary, everything is beautiful, organized and safe. Budapest is going to be in my heart forever, it will be my second country forever. The experience

opened my mind for things I'd never expect to think or like. Sometimes with ideas and solutions my country needs and my knowledge here may help it, even if only a little. *Köszönöm szépen, Magyarország! Köszönöm, BME!*

— *André Belmudes Pausco*

You never know what living abroad means until you do it yourself. Lots of advices, types, doubts, different feelings together which will not pass until you are in the place you've been waiting for so long. Living in Hungary wasn't just an academic year. It was an awesome personal and professional experience.

The cosmopolitan lifestyle of Budapest, the international environment at the office of my internship provided me an unique experience that I would never have even thought or expected before. Some time ago, a Brazilian sang that

*"The river only reaches the sea after walking the floor
The river of my land flows into my heart".*

The Danube, indeed, flowed into my heart, and although Budapest is not my birthplace, now it feels like home. For 18 months, I've had too much Budapest in my life. But I would never say I've had enough.

— *Paulo Henrique Santos Queiroz*

Some Songs We Sang

Folk and popular songs we sang together on trips and events

Tavaszi szél vizet áraszt

Tavaszi szél vizet áraszt,
virágom, virágom.
Minden madár társat választ,
virágom, virágom.

Hát én immár kit válasszak,
virágom, virágom?
Te engemet, én Tégedet
virágom, virágom.

Az a szép...

/: Az a szép, az a szép, akinek a szeme
kék, akinek a szeme kék. :/
Lám az enyém, lám az enyém sötétkék,
Mégse vagyok a babámnak elég szép,
Az a szép, az a szép, akinek a szeme
kék, akinek a szeme kék.

Száz forintnak ötven a fele

Száz forintnak ötven a fele,
Egye meg a fészkes fekete fene.
Nem lehet az ember fából,
Ki kell rúgni a hámfából.

Még azt mondják részeges vagyok,
Pedig csak a jó bort szeretem nagyon.
Megverem a csizmám szárát,
Csókolom a babám száját.

A jó lovas katonának

A jó lovas katonának de jól nagyon dolga:
Eszik, iszik a sátorba, semmire sincs gondja.
Hej, élet, be gyöngy élet, ennél szebb
sem lehet,
Csak az jöjjön katonának, aki ilyet szeret.

Paripáját megforgatja, elmegyén dolgára.
Csillog, villog a mezőben virágszál módjára.
Hej, élet, be gyöngy élet, ennél szebb
sem lehet,
Csak az jöjjön katonának, aki ilyet szeret.

Már minálunk babám...

Már minálunk babám, már minálunk babám az jött a szokásba,
nem szedik a meggyet, nem szedik a meggyet fedeles kosárba.
Felmegy a legény a fára, a meggyfa tetejére,
lerázza a meggyet, Te meg babám szedjed a rózsás kötényedbe!

Már minálunk babám, már minálunk babám az jött a szokásba,
nem szedik a makkot, nem szedik a makkot fedeles kosárba.
Felmegy a legény a fára, a makkfa tetejére,
lerázza a makkot, te meg babám kapkodd a rózsás kötényedbe!

Már minálunk babám, már minálunk babám az jött a szokásba,
nem szedik a meggyet-makkot, nem szedik a meggyet-makkot fedeles kosárba.
Felmegy a legény a fára, a meggyfa-makkfa tetejére,
lerázza a meggyet-makkot, Te meg babám szedjed-kapkodd, a rózsás kötényedbe!

Már minálunk babám, már minálunk babám, az jött a szokásba,
nem szedik az ananászt, nem szedik az ananászt fedeles kosárba.
Felmegy a legény a fára, az ananászfá tetejére,
lerázza az ananászt, te meg babám kaparászd a rózsás kötényedbe!

Eger városa, barátok városa

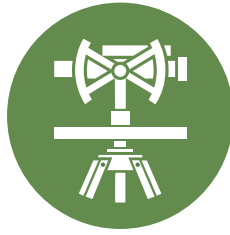
Eger városa, barátok városa
Barátok járnak fapapucsba'.
/: csiszi-csiszi csissz-csossz in nomine patris,
Reverenda alatt pálinkát visz. :/

Nem vagyok én barát, szeretem a piát,
Odaadom érte a reverendát.
/: Odaadom érte a csatos imakönyvet,
Ölelem és csókolom a szeretőmet. :/

Buda városa, diákok városa
Diákok járnak fapapucsba'.
/: kipi-kipi kipp-kopp in nomine patris,
diáksapka alatt pálinkát visz. :/

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Odaadom érte a diáksapkát,
/: Odaadom érte a rohadt matekkönyvet,
Ölelem és csókolom a szeretőmet: /





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Alessandro
Boettge Sias



Alexandre
Haag Leite



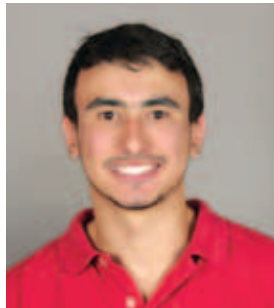
Aline
Moreira



Amanda Barros Fonseca
Gomes de Freitas



André
Carmo Ferreira



Ashton César
de Oliveira Filho



Breno Luiz
Amorim Silva



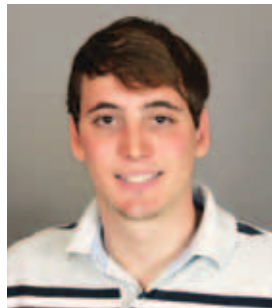
Bruna
Paschoalino Da Silva



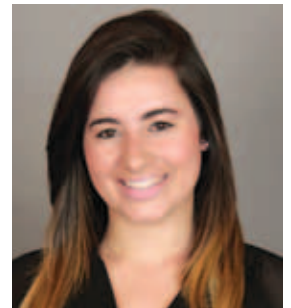
Bruno Benny
Vieira Coutinho



Bruno
Brant Gotschalg



Bruno Elias
Fontana Baldin



Carolina
Araújo Moreira

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Caroline
Almeida Stein



Daniela
Matos Mangualde



Diohn Lennon
Gomes Da Silva



Édipo
Nunes Santana



Eduardo
Da Silva Ricardo



Francisco
Chicone Neto



Francisco Douglas
Castro Cost



Gabriel Alcantara
Dourado De Oliveira



Gabriela Maciel
Nunes Coelho



Gabriella
Pereira Gervásio



Igor José
Ribeiro



Jaíne
Couto Coelho



Laís
Rensi e Silva



Leonardo
Alves Canevesi



Lívia
Caiado Pedrosa



Luan
Domingues Da Silva



Lucas Luíz
Fabris



Lucas
Passos Santana



Luciano
Campos Silva



Luiza
Gagno Azolin



Manoel Vítor
Araújo Oliveira



Marcelo Alberto
Santos



Marilia
Nunes Freire Ribeiro



Matheus Franco
Pereira De Almeida



Matheus
Moraes Pires



Murilo
Fabricio



Murilo
Gabriel



Osvaldo Luís
Cibulski Júnior



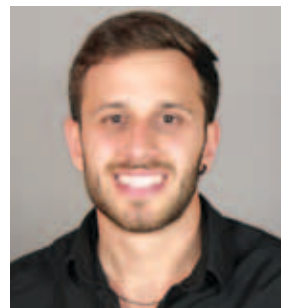
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Kikunaga



Paula
Rodrigues Awabdi



Paulo de Tarso
Berne Júnior



Paulo Henrique
Miranda Mitkiewicz

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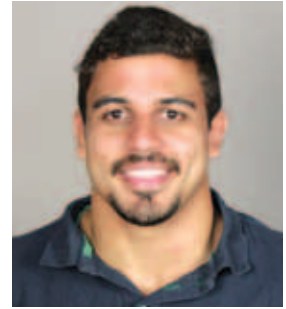
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Santos Queiroz



Paulo
Visco Bitencourt Borges



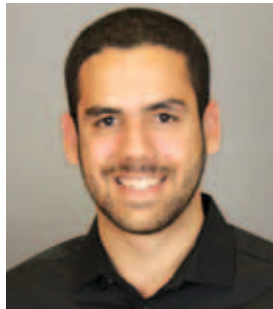
Pedro Augusto
Bracht



Pedro Henrique
de Andrade dos Santos



Pedro Henrique
Medeiros de Oliveira



Pedro Igor
Bezerra Batista



Priscila
Forte Quintela



Rafael
Moreira de Souza



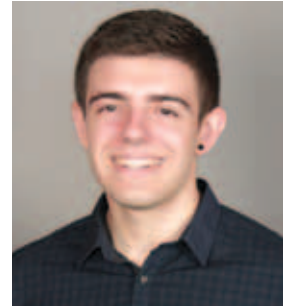
Renan
Barros



Ricardo Furtado
de Mendonça Rosa



Roberto
Mori Filho



Robson Kel
Batista De Lima



Rodolpho
Montavoni



Roque Rodrigo
Rodrigues



Sérgio Leandro
Scher Dias Neto



Táfilla Chayene
Paula Faria



Tarcísio Couto
Carneiro Santos



Thales José
Gomes Corso



Tiago Levi da Silva
Pinheiro Cardoso



Tuane
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de Souza Freire



Vanderson
Pereira Santos Soares



Virgílio Fagundes
Moreno Souza



William
Baradel Lari

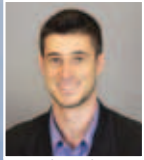


Willian
Tibulo Neves



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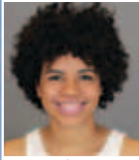
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Alessandro
Boettge Sias



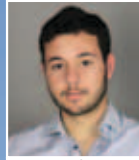
Alexandre
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Aline
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Amanda Barros Fonse-
ca Gomes de Freitas



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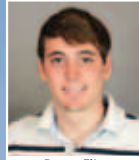
Carolina
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Edipo
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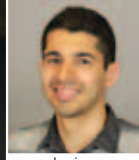
Luan
Domingues Da Silva



Lucas Luiz
Fabris



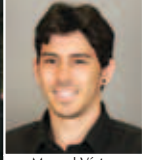
Lucas
Passos Santana



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Gagno Azolin



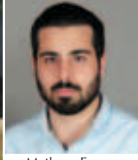
Manoel Vítor
Araújo Oliveira



Marcelo Alberto
Santos



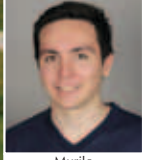
Marília
Nunes Freire Ribeiro



Matheus Franco
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Matheus
Moraes Pires



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Fabricio



Murilo
Gabriel



Osvair Luís
Cibulski Júnior



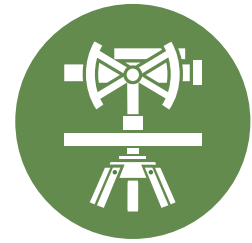
Patricia Emy
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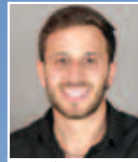
Paula
Rodrigues Awabdi

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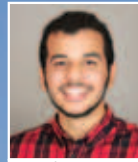
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Berne Júnior



Paulo Henrique
Miranda Milkiewicz



Paulo Henrique
Santos Queiroz



Paulo
Visco Bitencourt Borges



Pedro Augusto
Bracht



Pedro Henrique
de Andrade dos Santos



Pedro Henrique
Medeiros de Oliveira



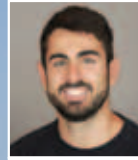
Pedro Igor
Bezerra Batista



Priscila
Forte Quintela



Rafael
Moreira de Souza



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William
Baradel Lari



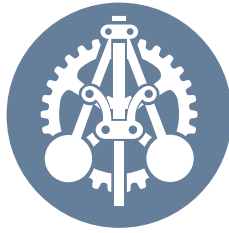
Willian
Tibulo Neves

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Bruno Elias Fontana Baldin	Paulo Visco Bitencourt Borges
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Daniela Matos Mangualde	Pedro Henrique Medeiros de Oliveira
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Lívia Caiado Pedrosa	Tuane de Souza Schuenke
Luan Domingues Da Silva	Túlio de Souza Freire
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Luciano Campos Silva	Virgilio Fagundes Moreno Sousa
Luiza Gagno Azolin	William Baradel Lari
Manoel Victor Araujo Oliveira	Willian Tibulo Neves
Marcelo Alberto Santos	Yohana Dos Santos Leal
Marilia Nunes Freire Ribeiro	



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Amanda
Silveira Alcantara



Bernardo
de Paula Pereira



Bruna
Correa de Araújo



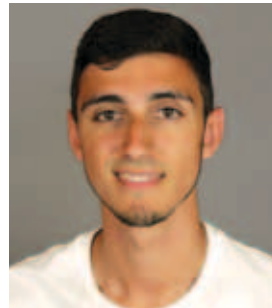
Bruno
Vianna



Carlos Eduardo de
Vasconcelos Montenegro



Charley
Gonçalves da Rocha



Diogo Cesar
Franzoi Buosi



Douglas Daniel
de Carvalho



Elton Carlos
Nogueira



Fabrício Katsuo
Kuniyoshi Watanabe



Gabriel
Barreto de Oliveira



Hanna
Itamaro

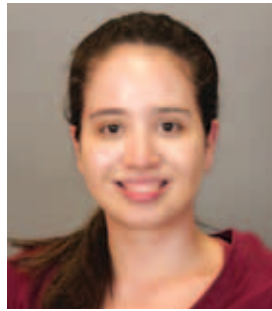
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Henrique
Mesquita Araújo Filho



Humberto Bernardo
Rodrigues



Iana
Mota Araújo



José Henrique
Kleinubing Larcher



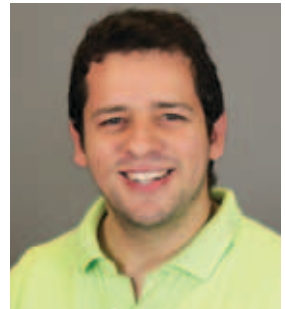
Lucas Veronez
Goulart Ferreira



Lucas Xavier
Pereira Cruz



Luís Filipe
Lopes de Carvalho



Luiz Gustavo
Silveira Chaves



Maira
Beato Ramos



Marco
Pederzini Pereira



Marcos Willian
Mocellin



Mauro
Carvalho



Nathália
Chamie



Nayara Selene
Pavão Collares



Nicolás
Brandão Rodrigues



Vanessa
Knebel



Vitor
de Castro Nobre



Vitor Henrique
Oliveira

Students of the Faculty of Mechanical Engineering 2014-2015

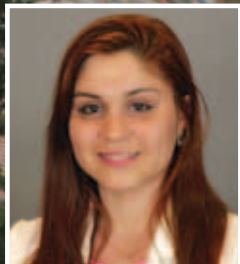
Amanda Silveira Alcantara
André Vaz da Costa Pardini
Antony Wilms
Artur Godoy Veiga Magalhaes
Bernardo de Paula Pereira
Bruna Correa De Araújo
Bruno Vianna
Carlos Eduardo De Vasconcelos Montenegro
Charley Goncalves da Rocha
Deborah Maria Leite Nascimento
Diogo Cesar Franzoi Buosi
Douglas Daniel de Carvalho
Edward Wilms
Elton Carlos Nogueira
Erick Flávio Guimarães Amaral
Fabrício Katsuo Kuniyoshi Watanabe
Gabriel Barreto De Oliveira
Hanna Itamaro
Henrique Mesquita Araujo Filho
Henrique Pozzolini Moreira
Humberto Bernardo Rodrigues

Iana Mota Araujo
Joao Victor Augusto Chaib De Toledo
Jose Henrique Kleinubing Larcher
Lucas Veronez Goulart Ferreira
Lucas Xavier Pereira Cruz
Luís Filipe Lopes de Carvalho
Luiz Gustavo Silveira Chaves
Maira Beato Ramos
Marco Pederzini Pereira
Marcos Willian Mocellin
Mateus Miranda
Mauro Carvalho
Nathália Chamie
Nayara Selene Pavao Collares
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Rayane Maria Cavalcanti Rodrigues
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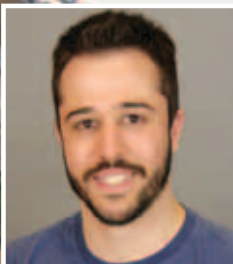


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Amanda
Silveira Alcantara



Bernardo
de Paula Pereira



Bruna
Correa de Araújo



Bruno
Vianna



Carlos Eduardo de
Vasconcelos Montene-



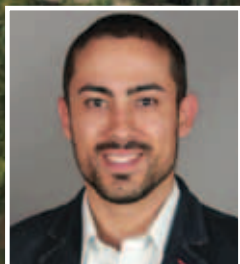
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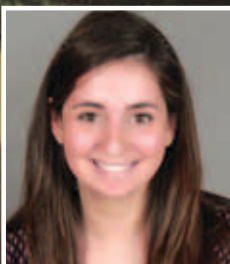
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Nogueira



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Kuniyoshi Watanabe



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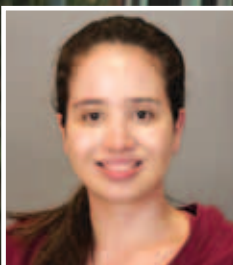
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Itamaro



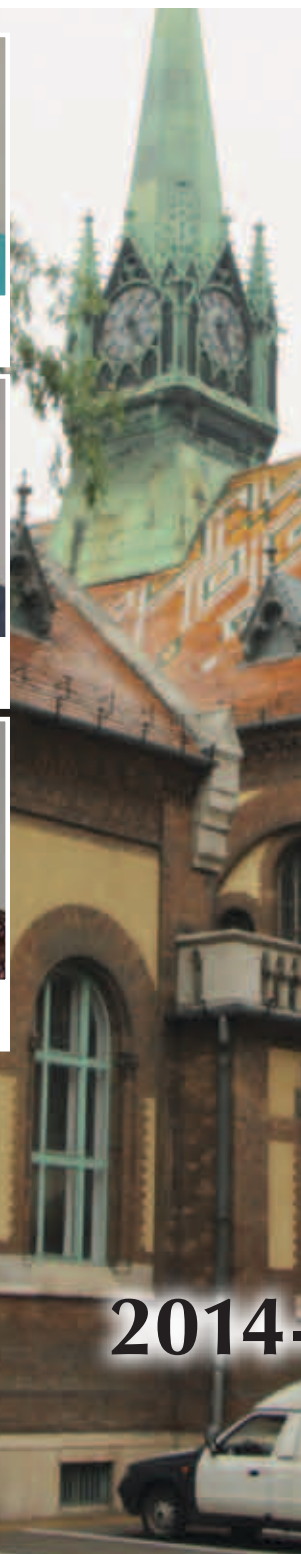
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Mesquita Araújo Filho



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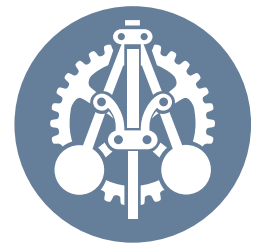
Iana
Mota Araújo



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José Henrique
Kleinubing Larcher



Lucas Veronez
Goulart Ferreira



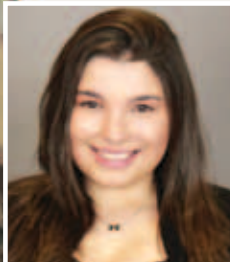
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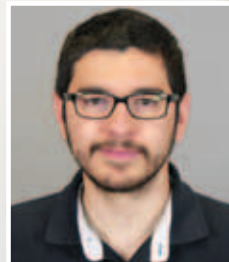
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Lopes de Carvalho



Luiz Gustavo
Silveira Chaves



Maira
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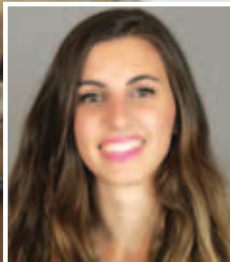
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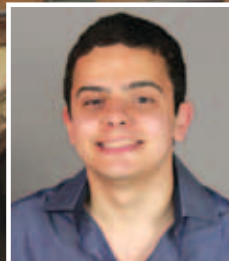
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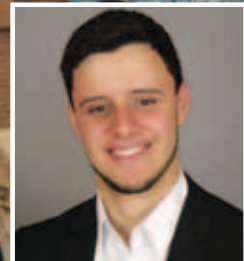
Nícolas
Brandão Rodrigues



Vanessa
Knebel



Vitor
de Castro Nobre



Vitor Henrique
Oliveira

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Barbara
Nicodemo Oliveira



Danilo
Silva Almeida



Felipe Xavier
da Silva



Francielle
Schreiner de Oliveira



Gabriel
Silva Dantas



Lesy
Duarte de Andrade



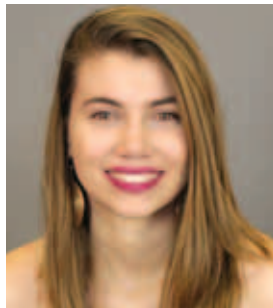
Luis
Souza



Máira
Silva Pereira



Natalie
Lafayette Sampaio



Patricia
Bublitz Nascimento



Rayane Flávia
de Araújo Lima



Roberta
Barreto Serejo Farias

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Barbara
Nicodemo Oliveira



Danilo
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Felipe Xavier
da Silva



Francielle
Schreiner de Oliveira



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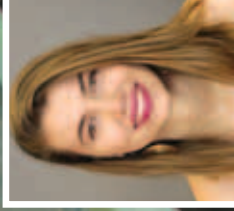
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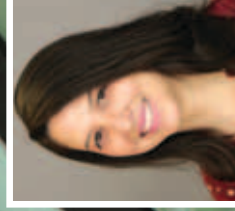
Maira
Silva Pereira



Natalie
Lafayette Sampaio



Patricia
Nascimento
Bublitz



Rayane Flavia
de Araujo Lima



Roberta
Barreto Serejo Farias



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Barbara Nicodemo Oliveira
Bernardo De Borba Razera
Danilo Silva Almeida
Felipe Xavier Da Silva
Francielle Schreiner De Oliveira
Gabriel Silva Dantas
Lesy Duarte de Andrade

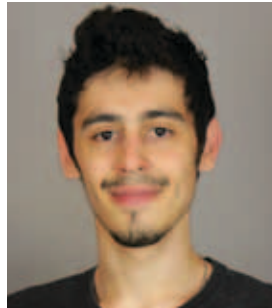
Luis Souza
Maíra Silva Pereira
Natalie Lafayette Sampaio
Patricia Bublitz Nascimento
Rayane Flávia De Araújo Lima
Roberta Barretto Serejo Farias



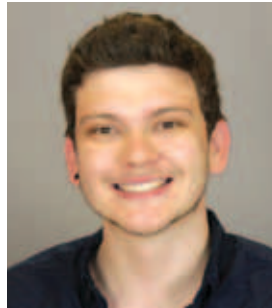
Faculty of Chemical Technology and Biotechnology



Alex
Lucena



Alexandre Kotchenko
Lucchesi Rangel



César Henrique
Freitas Souza



Flávia
Guimarães Lopes



Gustavo
da Silveira Gomes



Gustavo
dos Santos Lopes



João Lucas
Medeiros de Barros Vieira



Laura
Pinheiro Nichele



Marília Claudino
Moreira Cunha



Mateus
Moreira Saraiva

**Students of the
Faculty of Chemical Technology and Biotechnology
2014–2015**

Alex Lucena

Alexandre Kotchenko Lucchesi Rangel

Arthur Barbosa Lira

César Henrique Freitas Souza

Douglas Costa Alencar da Silva

Eduardo de Paulo Ferreira

Flávia Guimarães Lopes

Guilherme Moreira Gouvea

Gustavo da Silveira Gomes

Gustavo dos Santos Lopes

Joao Lucas Medeiros de Barros Vieira

Laura Pinheiro Nichele

Marília Claudino Moreira Cunha

Mateus Moreira Saraiva

Rafael de Oliveira Morais

Budapest University of Technology and Economics



Faculty of Chemical Technology and Biotechnology



Alex
Lucena



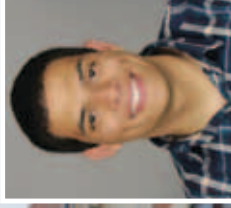
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Flávia
Guimarães Lopes



Gustavo
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Mariília Claudino
Moreira Cunha



Gustavo
da Silveira Gomes



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2014

2015



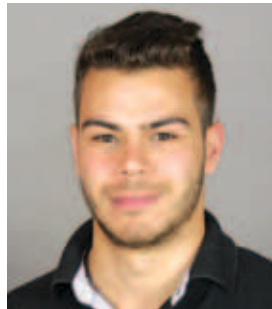
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Amiron Wolff
Dos Santos Serra



André
Belmundes Paiusco



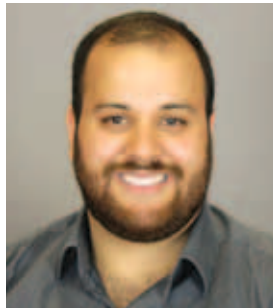
André
Leao Braga



André
Moura Gomes da Costa



Andrew Henrique
Pavei



Antonio
Oliveira



Artur
Araújo Borges



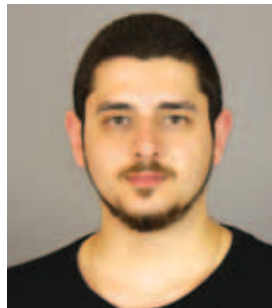
Beatriz
Giliberti Almeida Neves



Bernardo
Meneghini Muschioni



Brenda Carolina
Corcini de Oliveira



Bruno
Bagatini



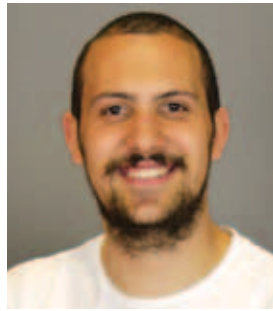
Daniel Ricardo
Utzig



Ezequiel Marinho
de Oliveira Neto



Felipe
Cordeiro Alves da Silva



Flavio Henrique
Galon



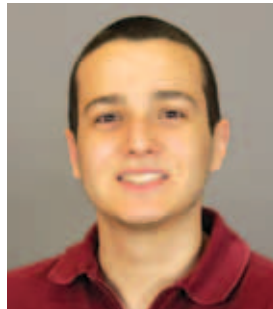
Gabriela Leticia
Souza



Hudson
de Moraes Filho



Iasmin
Silva Tavares



Igor
Vencio Peres



Ithallo
Alves Guimarães



João Paulo
Cervieri



João Vitor
Andreossi



Joeumar Crysthofferson
Cordeiro de Souza



José Ilton
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Josias
Paoli Reis



Juliana
Rodrigueiro C P Oliveira



Kelvin
Icaro Lacerda



Larissa
Santos

Budapest University of Technology and Economics



Lays
Alves Fernandes de Faria



Lucas
Alves Martins Felipe



Lucas
Silva de Matos



Luis Otávio
Sousa da Trindade



Maísa
de Oliveira Alexandre



Manoel
Neto Rodrigues Leite



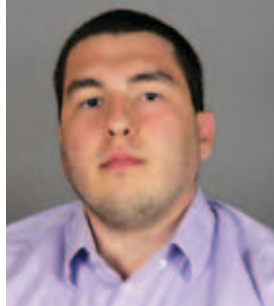
Matheus
Faria de Alencar



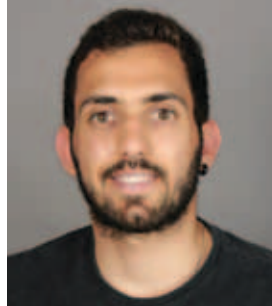
Matheus
Nery Antunes



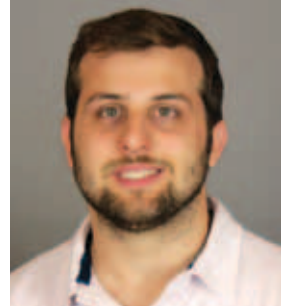
Matheus
Tavares Homem



Otávio José
Dezem Bertozzi Júnior



Paulo Henrique
Macedo



Rafael
Farah



Rafaela Giovana
de Souza Pascoto



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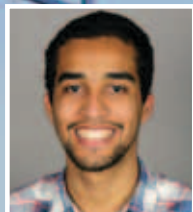


Thiago Bruno
Rodrigues de Rezende

Students of the Faculty of Electrical Engineering and Informatics 2014-2015

Amiron Wolff Dos Santos Serra
André Belmudes Paiusco
André Leao Braga
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Andrew Henrique Pavei
Antonio Oliveira
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Bernardo Meneghini Muschioni
Brenda Carolina Corcini De Oliveira
Bruno Bagatini
Carolina Elizabete Lepper
Daniel Ricardo Utzig
Ezequiel Marinho De Oliveira Neto
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Felipe Meciano
Flavio Henrique Galon
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Gustavo Antonio De Paula Santos
Hudson de Moraes Filho
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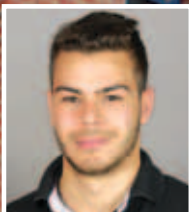
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Josias Paoli Reis
Juliana Rodrigues C P Oliveira
Kelvin Icaro Lacerda
Larissa Santos
Larissa Thayane Reis Godoy
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Lucas Alves Martins Felipe
Lucas Silva de Matos
Luis Otávio Sousa Da Trindade
Maísa de Oliveira Alexandre
Manoel Neto Rodrigues Leite
Matheus Faria de Alencar
Matheus Nery Antunes
Matheus Tavares Homem
Otávio José Dezem Bertozzi Junior
Paulo Henrique Macedo
Rafael Farah
Rafaela Giovana De Souza Pascoto
Ramon Araújo Dias
Richard de Almeida Roberto
Thiago Bruno Rodrigues de Rezende Oliveira
Victor Herzog Damke
Yuri Castro Neo de Carvalho
Yuri Freitas Gomes Santos



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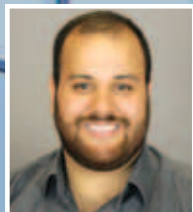
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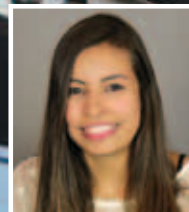
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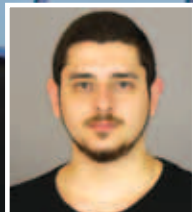
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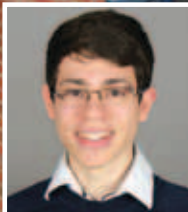
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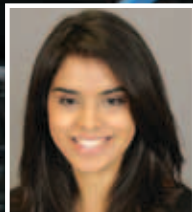
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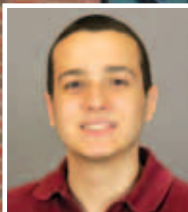
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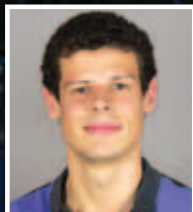
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João Vitor
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Technology and Economics Engineering and Informatics



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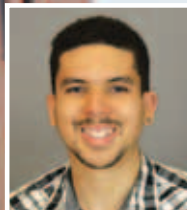
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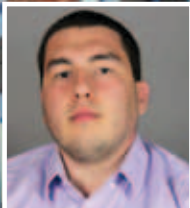
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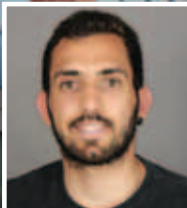
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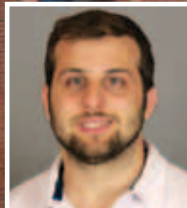
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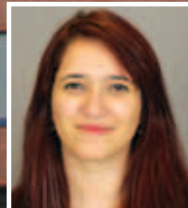
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de Almeida Roberto



Thiago Bruno
Rodrigues de Rezende

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Faculty of Transportation Engineering and Vehicle Engineering



André
Maia Pereira



Danilo
Lima Benini



Fábio
Galdino



Glicia
Oliveira Balestrassi



Marina
de Freitas Galvão

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Alex Ribeiro Rosa Júnior
Carlos Augusto Ribeiro Dos Santos
Danilo Andrade Fontenele
Douglas Rafael Costa Barduco
Fábio Mathias
Francisco Valentim Barbosa Dos Santos Filho

Gabriel Silva Nunes
Graziella Ferreira Machado
Gustavo Ferreira De Moraes
Izabella Abdon Siqueira Castilho Ferreira
Renato Cardoso Barbosa

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Faculty of Transportation Engineering and Vehicle Engineering



André
Maia Pereira



Danilo
Lima Benini



Fábio
Galdino



Glicia
Oliveira Balestrassi



Marina
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2014

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Faculty of Economic and Social Sciences



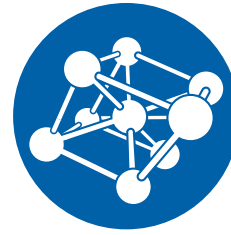
Vaniele
Guimarães Carvalho



Victor
Distefano Wiltenburg



Lucas Roberto
da Silva



Faculty of Natural Sciences

Budapest University of



Technology and Economics



Vaniele
Guimarães Carvalho



Victor
Distefano Wiltenburg



Lucas Roberto
da Silva



Faculty of Economic
and Social Sciences

2014-2015



Faculty of
Natural Sciences

Brazilians at the BME

2014-2015 academic year

In the academic year 2014-2015, 206 students have completed their studies at the Budapest University of Technology and Economics, and a year full of learning, experiences and memories will conclude.

During this year at this historic university they have settled in a foreign country, followed courses and conducted laboratory work in a foreign language. Some have even taken part in conferences or have undertaken research work to be presented at the Students' Scientific Conference. And also their lecturers think very highly of them: the visiting students have been very curious, creative and open-hearted. It has been a year worth remembering for all of us, and this book will help us do just that.



Hungarian Rectors Conference



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