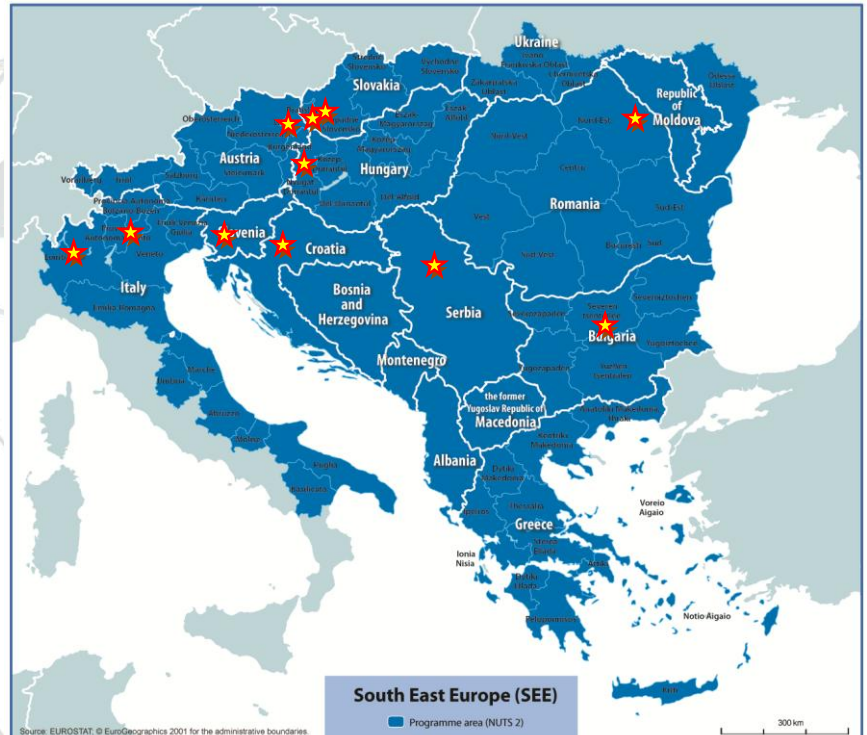


- Automobilový klaster - západné Slovensko (Slovakia)
- Comuniprese Societa' Consortile a Responsabilita' Limitata (Italy)
- Universitatea Tehnică "Gheorghe Asachi" din Iași (Romania)
- Nyugat-Pannon Regionális Fejlesztési Zrt. (Hungary)
- Technical University of Gabrovo (Bulgaria)
- Associazione CREATE-NET (Italy)
- Slovenská technická univerzita v Bratislave, Materiálovotechnologická Fakulta v Trnave (Slovakia)
- Gospodarsko interesno združenje ACS, Slovenski avtomobilski grozd (Slovenia)
- Hrvatski Automobilski Klaster (Croatia)
- Automobilski klaster Srbija – Fond za podršku konkurentnosti proizvođača autodelova i autoopreme (Serbia)
- Automotive Cluster Vienna Region – VIENNA REGION Wirtschaft.Raum.Entwicklungs.GmbH (Austria)

AUTOCLUSTERS Newsletter



The AUTOCLUSTERS project is now drawing to an end, the final conference is event when AUTOCLUSTERS partners will share their knowledge, experience and tools with you to help improve networking in the automotive industry among the Southeastern European countries.

The Autoclusters project connects universities, research institutes, SMEs and it is funded under the "Southeast Europe" program. It is a joint initiative between organizations from Slovakia, Hungary, Austria, Italy, Romania, Slovenia, Croatia, Serbia and Bulgaria.

The project aims to develop a sustainable network in the automotive industry among the Southeastern European countries. The idea is to create a technological and research network associated with automobile companies. It will allow network members to share their efforts to create modern electric vehicles and to design the infrastructure for their use.

Final Conference in Slovakia



FINAL CONFERENCE

8th of February 2012

Faculty of Materials Science and Technology
Paulínska 16, 917 01 Trnava, Slovakia

The Final Conference of the AUTOCLUSTERS project is being organized by slovak partners, LP- Automotive

Cluster – West Slovakia and Faculty of Materials Science and Technology in Trnava. Crowded auditorium at Faculty of Materials Science and Technology representative from project partners will present the main activities and highlight the key results of project AUTOCLUSTERS.

The organizers expect around 200 delegates from cross – sectoral range of areas: members of governmental organizations, academic and research staff, members of trade union and non-governmental organisations, project partners and others interested in automotive field.

The conference will open with welcome speech by prof. Oliver Moravčík, PhD. - Dean of Faculty of Materials Science and Technology, Ing. Tibor Mikuš, PhD. – prezident of Trnava Region and Ing. Vladimír Butko – mayor of Trnava .

The main organizational principle of the Conference is to give the floor to speakers, who represent

corresponding leaders from various government agencies and companies. Organizers invite you to take a look at the work that's been done by AUTOCLUSTERS project and follow partnerships that have been advanced in the SOuth East Europe region. Our cooperation brings results for our common future.



AUTOCLUSTERS

It is an international cooperative network of educational and research institutions with subcontractors and other bodies active in automotive industry.

The second level clustering activities proposed by the project are strictly oriented on the activities, which are improving the innovation capacities in the region and improve technology and know-how transfer – improving the innovation circle.

The project in the first stage analyses the cluster's development and best practices across the regions as well as creating the connection with other existing European activities in the automotive clustering. The project focuses highly towards producing concrete results and addresses the main challenges that are particularly specific for South-East Europe region.

For more information visit www.autoclusters.eu

AUTOCLUSTERS

AIMS

There are three main issues we would like this project to focus on:

- Requirements for implementations of new technologies, particularly according to new European strategies and policies
- Innovation capacities - Lack of labour on the market mainly in the area of highly qualified workforce for automotive industry
- Innovation circle - Lack in cooperation between R&D (universities), SME's and car (part producers)

In the case of NMS (New Member States), candidate countries, potential candidate countries and neighbouring countries there is still cooperation between industries and universities at lower level, an issue which is negatively affecting the sustainable development of the automotive industry in South-East Europe.

Project meeting in Ljubljana



Automotive cluster of Slovenia hosted **8th Autoclusters project meeting** in the capital of Slovenia – Ljubljana. Meeting took place from 28th - 29th October 2011 in Hotel Mons.

During the two day meeting two exchange study visits were organized. For the first partners were invited to Hella Saturnus Slovenia — producer for lighting technology and electronics for the automotive industry. Mr. Christof Droste, general director of Hella Saturnus Slovenia presented the company and some interesting facts about company. Later on the project partners of AUTOCLUSTERS had a chance to see the production facilities where directors of marketing, quality, development and production departments presented different processes in the company.

Furthermore the second exchange study visit was being organized at the University of Ljubljana - Faculty of Mechanical Engineering. Faculty of Mechanical Engineering presented their R&D capacities and experiences with cooperation on numerous different projects with mainly large companies from Slovenia and abroad.

Project meeting generally aimed at exchanging of the information between Project Partners with the participation of other relevant stakeholders, interest groups and beneficiaries. On the other hand project partners discussed all project related issues, such as management and coordination tasks, project activities and took decisions about the ongoing activities in different work packages.



The PhD Students Competition 2011 and

the final Event in Trento

One of the pilot actions of the AUTOCLUSTERS project is the students' competition. The PhD Students Competition 2011 have been organized within the Small Project AUTOMOTIVENETS ("Automotive Networks Workshop at AUTOCLUSTERS Annual Event, February, Italy and students competition"). This task involved the following project partners:

CREATE-NET Italy, STU-MTF Slovakia, TU Iasi Romania, TU Gabrovo Bulgaria, AC Slovenia, Comunimpresa Italy. The objectives of this competition were:

- improve networking and the development of new ideas between partners by bringing students on board;
- test the feasibility for continuation with a pilot action.

The competition received application by 17 participants. Countries-specific evaluation commissions - composed by



Internal and External Experts - elected four winners (unfortunately no applications arrived from the ICT-focused University of Trento):(Slovenia) Miha Pevec, "Thermal and Cooling Analysis of a Passenger Car Front Brake Disc"(Slovakia) Martin Beluski and Marian Hodulik, "Optimization of Material Flow. Innovation in the Automotive Sector"(Romania) Sticea Daniel, "Bidirectional DC-DC Converter for Energy Sources Interface on Hybrid Electric Vehicles"(Bulgaria) Krasimir Krustev, "Conceptual Model of Automated Battery Exchange System with Using of 3D Scanning"

The 17th of November 2011 the event "Ph.D. Students Competition on Innovation in the Automotive Sector – the WINNERS day" brought together winners, project partners and external experts in the [Hotel Villa Madruzzo](#), Trento (Italy). The students' and experts' speeches ended with the presentation of the renewed [ASCEE portal](#) operated by EAI, which will increase the opportunities for future joined activities.

AUTOMOTIVENES

The project idea came after the implementation of WP3 and effective creation of AUTOCLUSTERS network as part of WP7.

It became obvious that there are many EU funded excellent projects in the field of providing innovative solutions for sustainable and safe automotive transportation, excellent partnership during those projects implementation and at the same time most of the project does not succeed to disseminate the results after the termination of the project.

In many projects students are involved as junior researchers but few of them are given opportunity to show their best via competitions or make presentations during events.

Knowing that each partner from AUTOCLUSTERS itself is a network or belongs to a network lead us to the idea to energe our project network and provide a meeting place for the researchers, industry, university professors, students, local authorities and funding bodies to present, discuss and acknowledge the excellence in the sustainable and safe automotive transportation oriented projects.

Limousine based on Dacia Duster created by Romanian Students

A group of 23 master students from universities in Craiova, Bucuresti, Pitesti and Iasi have developed, during their preparation of master diploma as interns at [Renault Technologie Roumanie](#), what they called the Dacia Duster Birou Mobil (Mobile Bureau) limousine.

The aim of the project was to develop students' creativity and ability to use and integrate various new technologies into a real functional prototype vehicle. The prototype was based on a Dacia Duster platform that supported several modifications during the project both at the chassis level and for the car interior design. The chassis was stretched with 1.5 meters while the interior was supplied with different accessories that define the bureau destination where, at anytime, a mini-conference can be organized: WiFi and Bluetooth communication, 3G router, computer tablets, a video camera, a supplementary climate control system and even a small refrigerator for keeping the drinks cold.

Sources:

www.promotor.ro

www.0-100.ro

7th EU Framework Programme



"The technical University of Gabrovo has submitted project proposal for development of contactless charging station under the [7th Framework Programme of the European Union](#)", said Prof. Raicho Illarionov. The team of [TU Gabrovo](#) is working on another international project - "Autocluster" and wants to continue its research in the field of electric vehicles and transport infrastructure.

One of the project requirements is collaboration between business, research centers and universities. The proposed project includes organizations from France, Spain, Greece and Slovakia. Leading partner is the French company DBT that manufactures conductive charging stations. Despite DBT is the formal leader, the project is fully prepared by the team of TU Gabrovo.

The primary goal of the partnership is to create a prototype electric car and charging station that will use wireless power transfer by electromagnetic induction. This will eliminate the inconvenience of dealing with high voltage cables and the electric vehicles will be more users friendly. The technology will provide an option to charge the EV on parking place but also during the trip at stop lights.



The project should be implemented in three years for the total price of 3.5 million euro, 25% of them are self-funding. In Bulgaria the self funding is covered by the Ministry of Education and Science.

The main part, the power transfer from the charging station to the electric car, will be developed in TU-Gabrovo. Three electric cars will be purchased, one of which will be used for tests at the Technical University. The French town of Dowai will be responsible for testing of the prototype in real environment.

SIELMAN 2011

Between 13 to 14 October 2011 two AUTOCLUSTERS project team, members from „Gheorghe Asachi” Technical University of Iasi, Romania, prof. Cristian-Gyozo Haba and prof Dumitru Lucache, attended SIELMEN 2011 Conference 2011 (The 8th



International Conference on Electromechanical and Power Systems) which was held in Chisinau, Republic of Moldova.

As an action within the AUTOCLUSTERS project they have organized the Workshop on Actual Trends in the Electro-Mobility in South Eastern Europe. In the first day the opening of the SIELMEN 2011 Conference gathered the participants in the Rector's building of the Technical University of Moldova in Chisinau. The speakers have emphasized the long tradition of the SIELMEN Conference which every two years brings together scientists and specialists in the field of Electromechanics and Power Engineering in the East Europe to discuss the latest developments in the field. Following the opening, the participants visited the exhibition organized in the courtyard of the Department of Power Engineering where, on one hand, the teachers and researchers from Technical University of Moldova exposed their results and on the other hand a number of companies from Moldova specialized in the field of electromechanical and power engineering presented their products and integration solutions.

In discussions with both exhibitors and visitors, specialists in the area of electromechanical and power engineering, AUTOCLUSTERS project team members presented the up to date project results with greater emphasis on the issues related to electro-mobility.

E-mobility

Project is focused on analysis of electromobile infrastructure in chosen regions/cities of SEE. The main purpose of the project is start up new pilot initiative in the frame of electromobile issue with great transnational impact. The main challenge in our project is to support innovation activities, R&D activities, increasing environmental consumer awareness, creation cooperative networks in area e-mobility. We would like to analyse electromobility infrastructure from 2 main points of view:

1. Technical and physical infrastructure (it means: power stations, services centres, recycling of batteries, suppliers, electricity production, potential renewable energy sources, actual legislation in EU in terms of e-cars, potential partners organization for e-mobility development etc.).
2. R&D and innovation infrastructure (actual R&D labs, innovation centres, university centres, firms, local market trends, SWOT analysis of the region/city with focus on e-mobility and its future development in horizon 10 years).



E-MOBILITY



Peugeot 208 will be easier and more sparing



New Peugeot 208, which replaces Peugeot 207, say - Peugeot changing strategy. Peugeot 208 focuses on the efficient using of space and fuel. It will also brings great weight savings. In its construction will be used first "green" materials of natural origin. From them will be made for example mask of grille and rear bumper. Intelligence of construction complements less challenging design. Despite the smaller size, Peugeot conjured up in the rear of five centimetres more legroom. Moreover, in the trunk was added 15 liters of luggage. Under the hood, the revolution took place. Peugeot passes by gasoline engines to three-cylinder 1,0 VTi and 1,2 VTi. Diesel four-cylinder engine will get stop-start system for e-HDi engine shutdown at low speeds and intelligent alternator. The most cost-effective diesel motor consumes only 3,4 litres of fuel per 100 km. French newcomer will meet on production lines of the Slovak plant PSA in Trnava. The market gets over the next year. The premiere is scheduled for spring Geneva Motor Show.

European Forum for Innovation 2011 – EFI 2011 Rome, 30 November – 2 December 2011

EAI | European Alliance
for Innovation



In the period from 30 November to 2 December 2011 assoc. prof. M.A. Dagmar Cagáňová, Ph.D. and assoc. prof. MSc. Jana Šujanová, Ph.D. from the Institute of Industrial Engineering Management and Quality, the Faculty of Materials Science and Technology, the Slovak University of Technology actively participated at the European Forum for Innovation (EFI) 2011 in Rome.

The organizer of event, European Alliance for Innovation (EAI), unique in its use of open e-platforms to inspire matchmaking, collaboration and to reduce fragmentation among all relevant actors, from organisations to individuals, invited assoc. prof. Dagmar Cagáňová to give a talk on topic Gender Diversity and Innovation. As well as to become a panellist in the discussion Dissemination and Personal Recognition. This three-day event consisted of over 70 speakers providing key notes, participating in panels and presenting the latest developments in innovation initiatives in Europe to attendees from around the world. The record from this event was presented online via social media and a live stream provided by Telecom Italia.

More information you can find at <http://efi.eai.eu/>

New chapter opens in the collaboration between Széchenyi University and Audi Hungaria



University
Rector Dr.
Tamás Szekeres
said at the
Senate's sitting :
Audi Hungaria
Motor Kft is the

number one strategic partner of Győr-based Széchenyi István University, and the institute aims for ever stronger collaboration in the field of education and research. In order to achieve this, Széchenyi University will establish the AUDI Hungaria Vehicle Engineering Department Group. The AUDI Hungaria Department Group will play an important role in realising the aims of the Faculty and the University. The targets of AUDI Hungaria Vehicle Engineering Department are the following:

- strengthening the professional presence of Audi AG and AHM in the educational and scientific research work conducted at the Faculty;
- the integration of state-of-the-art technological practices that are applied in vehicle and engine manufacturing into the engineer training in Győr;
- the development and mentoring of practice-oriented engineer training;
- strengthening R&D potential and international relations in connection with the automotive industry;
- the introduction and development of engineer training in German language;
- the reinforcement of engineers working at Audi Hungaria Motor Kft; the training of AHM staff;
- forming an ideal and inspiring professional environment for R&D activities for doctoral candidates and the lecturers of the Faculty.

2011: a peak year in the automotive industry of Hungary

The automotive industry of Hungary had an exceptional year in 2011: the year was characterised by investments, developments and the creation of new workplaces. Not only the big ones, Audi, Mercedes, Opel, but smaller companies had an eventful period too. As most of the larger investments will continue to go on next year as well, Hungary is looking forward to a similarly exciting year in 2012 in spite of all the negative prospects.



Hybrids in Frankfurt motor show

The International Motor Show was opened on 15th of September in Frankfurt am Main by Chancellor Merkel. The exhibition in Frankfurt takes place every two years alternating with the Paris Auto Show and it was held for the 64th time. It is the most important auto show of the year.

The IMS in Frankfurt shows small city cars at the forefront of electric mobility. The conventional cars are going thinner, they are more economical and connected to Internet. The main novelty were in the compact car. This coincides with world strategy for better energy efficiency. Some trends in the major car show of the year were unmistakable. Thus, the electrical mobility, at least in the studies has prevailed. Only one manufacturer decided not to show own electrical vehicle. The technology is finally ready to make e-vehicles at low cost and with high distance coverage.

<http://www.autoclusters.eu/index.php/project-news/225-hybrids-and-e-cars-dominate-in-the-motor-show-in-frankfurt>

Special highlights on e-mobility in Frankfurt Motorshow 2011



The representatives of "Gheorghe Asachi" [Technical University of Iasi](#), Romania, visited the 2011 edition of the Frankfurt Motor Show for identifying the actual trends in

electro mobility. We could see at Siemens booth electrical motors, charging stations, inductive charging systems, at Johnson Controls booth batteries, battery control and battery monitoring electronic systems, at Jtekt booth electric power steering systems, at Aisin booth hybrid car related products and at Baumuellner booth different types of electric drives for trucks. Other charging station solutions were present at e-ON booth but also at RWE one. We take a longer visit at Continental and Delphi booths as both companies have subsidiaries in Romania and more important for us in Iasi where they are developing a good relationship with the academic environment. We could discuss about the electronic controls, electric drives and safety systems which are also in our area of interest. A full range of electric products that are designed for electric vehicles we found at well known companies Bosch (electronics, drive systems) and Valeo (electronics, drive systems, motors).



By visiting the Frankfurt Motor Show we could better understand which is the actual state of the art in the area of electro mobility and put our analysis about the electro mobility infrastructure elaborated in the frame of SEEE-Mobility project into a new perspective.



10 Years of Automotive Cluster



The Automotive Cluster of Slovenia (ACS), uniting 57 companies and six research and development institutions, marked its 10th

anniversary in Ljubljana. Building on technology and innovation, the Slovenian car industry suppliers are upbeat about the future, despite the problems in the eurozone. Last year's sales of the ACS members, employing more than 20,300 people, reached some EUR 2.8bn, while the projections for this year are even better. "We estimate that our target - EUR 3.2bn in sales - will be reached this year, while we expect 5-10% growth next year," ACS head Dušan Bušen told the press. Exports account for over 80% of total sales. Since its founding, the ACS has been focusing on growth and development. According to Bušen, in the past decade the cluster evolved from a small group of individual companies and institutions into "a closely linked network of development partners of most top global car producers". Matija Fajdiga of the Ljubljana Faculty of Mechanical Engineering, who is also the chief supervisor of the ACS, said that the companies united in the cluster had become "a kind of a global company". Iskra Mehanizmi CEO and vice president of the ACS Marjan Pogačnik believes the cluster is a success story which could serve as a role model for the country. "Without cooperation nothing can be done," he said. Despite the negative outlook for the EU and eurozone for 2012, Cimos CEO Zorko Kenda remains optimistic. "Next year will not bring the end of the world. Europe will still be driving." Europe's Association of Automotive Suppliers (CLEPA) CEO Lars Holmqvist warned that the European car industry faced two big challenges. One is the Asian market, especially Chinese manufacturers, and the other is more stringent fuel economy standards which the car industry will need to adjust..



**SOUTH EAST
EUROPE**
Jointly for our common future



Programme co-funded by the
EUROPEAN UNION

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