

LIVING LAB LOOKS FOR RECOGNIZED **SCIENTISTS AND REVEALS THEIR WORK**

The University of Pardubice and the Czech oped at the University of Pardubice and beyond, Radio: a well-established tandem of the Liv- thus increasing the awareness about the university ing Lab programme broadcasting every week work among the general public and promoting the in one of the most popular radio station. Since university's reputation. the academic year 2012/13 a joint project focusing on research and development populari- opment results and bringing scientific work closer zation discloses in the Czech Radio Pardubice curiosities of the modern world of science and technology.

"THE LIVING LAB DISCLOSES SECRETS, NEW ments on the Living Lab programme. MATERIALS, NEW IDEAS. THE LIVING LAB IS A PROGRAMME ABOUT SCIENCE THAT MAKES OUR LIFE EASIER."

programme broadcasting nowadays every Saturday afternoon. The programme about the university and scientific discoveries reveals to its listeners
The Living Lab looks for Czech scientists who

the Czech Radio Pardubice and contributes to the to find the way into a number of scientific fields. popularization of the scientific disciplines devel-

"Communication of science, research and develto the general public is an integral part of a public university's mission as well as informing about our work and achievements," Valerie Wágnerová, University spokesperson and PR specialists com-

Almost every day scientists across the world pronounce "eureka" and fill the specialist journals with descriptions of new inventions. Sometimes it The motto regularly announces the Living Lab is revolutionary, sometimes it is just a minor discovery. However, without any of these, the progress would slow down.

the news in research and development in different might have experienced their first discovery or might be waiting for it, yet they have something to The programme is composed in cooperation with offer. The listeners thus have a unique opportunity

LIVING LAB

Listen to the CZECH RADIO PARDUBICE

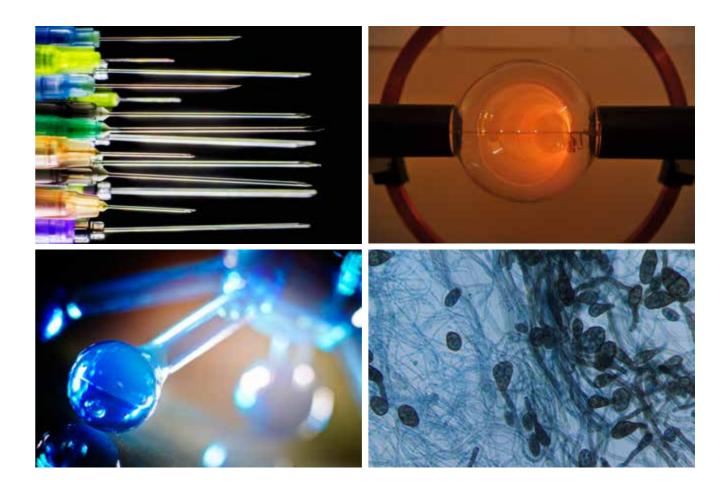
Now every Saturday at 3:30 p.m.







104,7 • 98,6 • 102,4 • 101,0 FM



TENS OF SCIENTISTS OF THE UNIVERSITY OF PARDUBICE POPULARIZE SCIENCE AND TECHNOLOGY

Both academic year 2012/2013 and 2013/2014 fields in the Pardubický Region and within other saw allready 82 programmes released by the Czech Radio. Feature editor – yournalist Jana Dapopularization of science in general.

On her way to meet the scientists, Jana Davidová The University of Pardubice under the project did not leave any of the seven University faculties aside. Research and development presents varied activities and each scientific field embraces a great the entertaining and interesting side of modern number of curiosities to be brought to the light. The listeners can form an idea about the matters tific fields developed at the seven faculties. All of that put the recent world in motion and the is-

sues the Pardubice scientists have currently been involved in. The opening set of programmes were the first year piloted within the project Regional Coordinator to support technical and science

Since 2012, the popularization project called vidová interviewed a number of academics who BRAVO - Open Door to Scientific Knowledge spoke about their real work and contributed to has enabled to continue with the programme and broadcasting.

> BRAVO aims at active involvement of the young generation in the world of knowledge, showing science, research and development in the scienthis is carried out in the form of contact science popularization adventure events, exhibitions, excursions, lectures, talks and also through the Living Lab Radio programme.

EVERY WEEK IN A DIFFERENT LABORATORY

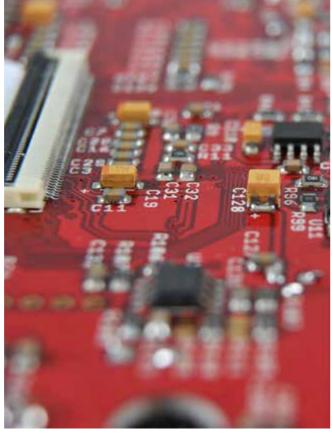
The current science is varied and rich in curi- materials or hidden explosives, advanced materiosities. The offer is large and infinite; and there als and nanotechnologies. are no limits to science popularization. No Such specific terms hide the research into the matter how complicated is the research, it can already existing parts of our everyday lives. Even always be transferred into the lay language. Fortunately, Jana Davidová knows how to do it. will soon hear about them. However, chemistry is

Every week, together with her, we knock on one Pardubice. There exist a number of other interof the doors of the University's lab to reveal its secrets. Sometimes the lab cannot be seen for a number of different devices, other lab is full of cal engineering and many others. We can witness various chemical substances and sometimes we major findings in history and literature. Transport are in a medical environment full of white coats. In engineering brings to life new materials and techcertain labs we are surprised to see small robots nologies to be used in bridge constructions, rails whose role in modern science soon becomes obvious. Jana Davidová never misses a trick, and nor do we thanks to her effort.

branch of science. Besides the traditional organic which one can find new ideas and extraordinary and inorganic chemistry, there are bio-chemical sciences, physical chemistry, graphic art, energy

these are being replaced by the new ones and we not the only scientific branch at the University of esting fields starting from philosophy and anthropology, health studies, information science, electriand designs new forms of graphic train diagrams and logistics. Many primacies survive in localization systems and data transfer systems. This is It seems that chemistry is the most attractive just a small example of science and technology in discoveries for our everyday life.





SAMPLE PROGRAMMES

FIGHT OF ROBOTS OR ARTIFICIAL **INTELLIGENCE FORM** "THINKING" ROBOTS

Mechanical models present a most welcome Who wins the on-line battle? need for the scientists and students at the Department of Process Control at the Faculty of Informatics and Electrical Engineering. They volved in the research into the neuron systems designed robotic vehicles to be able to verify the new neuron systems-based control systems.

behaviour in a battle. The control algorithms of two robots are set up in two phases - a rough fight from the front and intelligent fight based on avoiding the obstacles. Such fights can form an artificial neuron system resulting in the "thinking" of the robotic vehicles.

"It is a motivation model for students," say Petr Doležel and Libor Havlíček. Both of them are inbased control algorithms. The recent technical world cannot do without artificial intelligence or Soft computing. The two scientists therefore look for new control algorithms to equip the "robot-One of the options of their way of thinking is the explorer" with, e.g. in an environment unsuitable for humans.



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SCIENCE FAIR: UNIVERSITY OF PARDUBICE ATTRACTS CHILDREN

ful solutions boiling in the flasks. Some kiosks The academic staff and university students prepared produce a nice scent while the others make us choke. Enthusiasm of school children as well as adults keep the young scientists busy.

tance however, on taking a closer look, you find out that it is used for the minting of the Middle-Age groschen with the first Czech inscription. The time-honoured square recalls the atmosphere of the old-time open air market. The twenty-first century is perhaps reminded by the meteorology station or by curious vehicles getting under our feet and flying over our heads.

White clouds coming out of the kiosks, colour— The Science Fair started in Pardubice on June 18th.

for the audience attractive scientific curiosities that have already become a part of everyday life.

Contemporary science also came up for discussion. Each visitor to the Fair took home, besides A massive wooden block looks suspicious at a dis- a Middle-Age groschen, a certain knowledge of dry ice, the use of a simple raindrop. Children could produce a jelly-bean from alginate snakes or tried to drive the latest model of a rescue robotic vehicle yet waiting to be manufactured.



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THE LIVING LAB ADDRESSES A WIDE SPECTRUM OF LISTENERS

Popularization of research and development The Living Lab on the Czech Radio pages is the Univeristy's task number one in looking The Living Lab also has its website where Jana for the new ways of addressing the young gen- Davidová houses all the interviews. The web proeration and make the science and technology attractive. The University of Pardubice decided to complete the task in cooperation with by the listeners' attendance of the web pages. the Czech Radio.

The Czech Radio regularly occupies the fifth to sixth position in the audience rating among the regional radio stations in the Czech Republic. Its great
The Living lab on the website of the University advantage is the high quality programmes abounding in interesting information that attracts the listeners' attention. Among such programmes is the giving the basic information and the link to the Living Lab. The joint work of the Czech Radio and Czech Radio. the University of Pardubice guarantees the complexity: the programme addresses the elderly as The Living Lab keeps abreast of the times on well as the young generation which is its priority. Facebook. Many young people have a close relationship with The Facebook profile of both the institutions is their grandparents who function as guides in the a major promotion tool. world of science and technology. And they are the The websites contain invitations to the proones to use similar programmes to be on the right for details or turn directly to the scientists from the radio broadcasts. And this is the heart of the young.

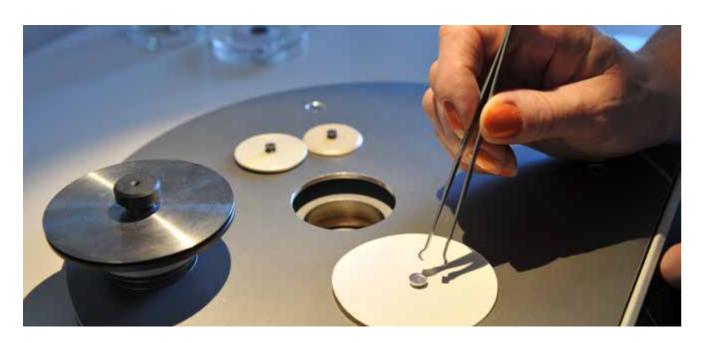
gramme lists among the most frequently visited programmes of the Czech Radio Pardubice judged

It seems that even such a complex topic as research and development can address the target group of the University of Pardubice.

of Pardubice

The Living Lab trailer is on the University website

gramme: "Listen to the Living Lab with us and track. The listeners then find new ways to think be smarter. Science will show you a number of about science: they start to get involved, search options to win recognition". There are 7,500 Facebook friends complemented by another 1,500 listeners of the Czech Radio, which is quite a large matter: the way to the public and especially to the target group to be addressed by the Living Lab programme.





WHO IS JANA DAVIDOVÁ?

Every week one of the University's scientists programme The Way They Live. She has been for opens the door to his or her lab and thanks to lana Davidová, the feature-editor, even to the public and those interested in the world of science and technology can take a look.

researchers. She investigates about the back- says Davidová. ground, the demanding points and challenges of

ment, politeness, enthusiasm and heard the information they are interested in," says Jana Davidová about her work.

Trees - Natural lewels. She participated in the about communication.

past three years involved in the Living Lab Radio programme.

"The programmes enable me to convey all the life stories and good experiences wrapped in the technical magic of radio broadcasting onto the lis-Jana Davidová, the feature editor, talks with the teners - no matter whether they are interested academic staff and young researchers about the or listen to the programme just by a mere chance. achievements and the backstage of scientists and It is up to them how they use the information, "

the relentless work of a researcher. She tries to She became involved in science popularization "pick their brains" to find out the secrets, plans immediately after her studies bringing domestic and longed for wishes in the scientific fields. She and foreign literary art and philosophy treasures can manage all of this in a regular 15-minute pro- closer to high school students. She taught literary seminars about the Czech literature at the "I wish that the listeners felt joy, esteem, involve- department of the Czech language and literature of the J. E. Purkyně University of Ústí nad Labem, published in specialist journals and worked as an editor in publishing house Horizont in Prague. Jana Davidová also wrote several scenarios and topics Since she joined the Czech Radio, Jana has made for the Czech TV and Czech Radio, participated a number of programmes: Traditional Customs in the making of the book Moral Opinions of and Lores, Witnessed Stories, or Centuries-old T. G. Masaryk and prepared a series of lectures

Listen with us! **Living Lab** on the Czech Radio Pardubice Audio insight into the scientists' world. Every Saturday afternoon.

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University of Pardubice

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