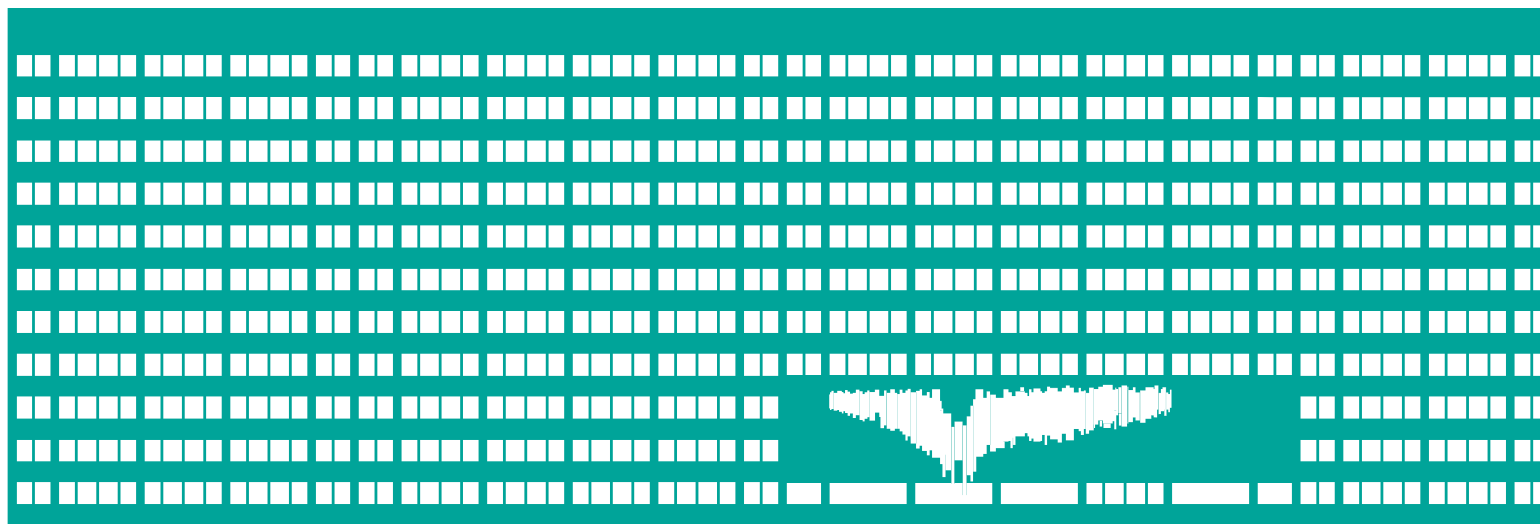


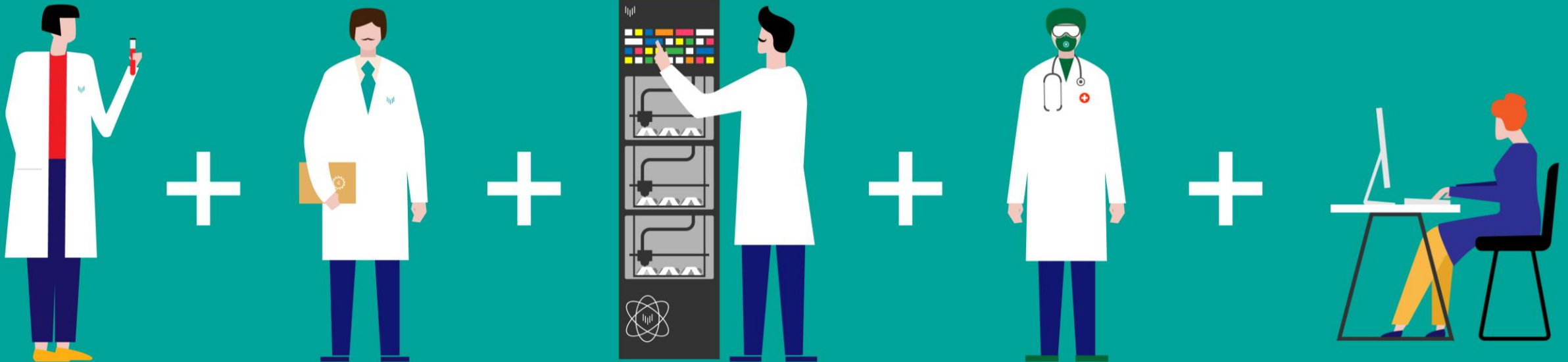
VŠB TECHNICKÁ
UNIVERZITA
OSTRAVA

VSB TECHNICAL
UNIVERSITY
OF OSTRAVA



WE ARE HELPING (NOT ONLY) in the fight against COVID-19

Prof. Václav Snášel, Rector



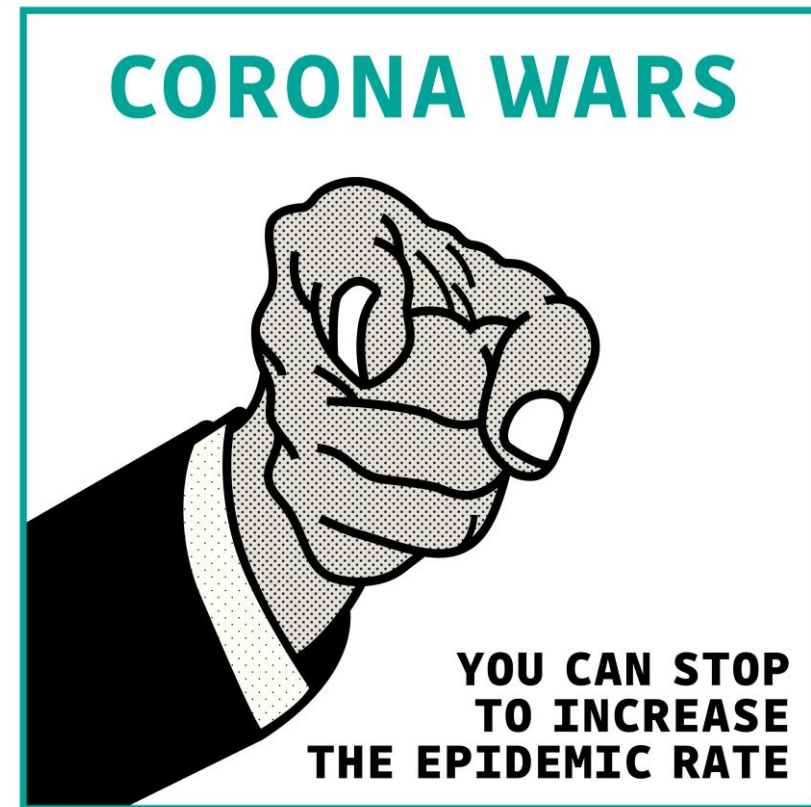
Introduction

Academic and non-academic staff and students of our University have got involved in the fight against COVID-19.

They began to produce protective shields for paramedics and disinfection on a large scale and have also engaged Czech supercomputers in the fight.

We, however, help constantly.

We are the National social responsibility prize winner.



Our help

"The commitment of social responsibility is intertwined at all levels in the day-to-day activities and the University's long-term strategy," says the Rector of the university, Prof. Václav Snášel.

Our regular activities include:

blood donation (over 600 donors), recruiting to the bone marrow donor register, charity run Technique Run, donation of garments for charity shops Moment, purchase of ecological cleaning products for the operation of the University, ecological educational programs for the public, operation of visitor centers of the Planetarium Ostrava and Geological Pavilion of Prof. Pošepný, University of the Third Age, collection for victims of the University Hospital Ostrava attack in December 2019 ...

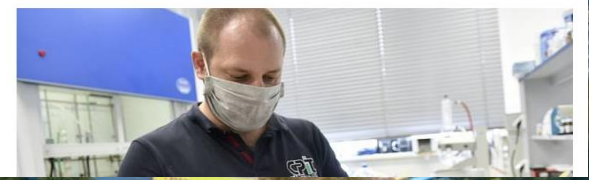


V Ostravě vyvinuli reaktorový filtr. Pomůže zdravotníkům, hasičům i policistům

15.4.2020



Až 10.000 hodin vydrží reaktorový filtr Subveco do masek a polomasek pro nejvyšší bezpečnost, který vyvinul a otestoval tým Centra pokročilých inovačních technologií Vysoké školy báňské-Technické univerzity Ostrava (CPIT VŠB-TUO).



[VŠB-TUO](#) > [O univerzitě](#) > [Společenská odpovědnost](#) > Pomáháme bojovat s koronavirem

Pomáháme bojovat s koronavirem

Česká televize Zpravodajství Sport Vyššího TV program Pořady A-Z Pro děti Art e



KORONAVIRUS KRIZOVÉ KONTAKTY DOMÁCÍ SVĚT REGIONY EKONOMIKA KULTURA

Vědci v Ostravě vyvinuli reaktorový filtr, díky kterému se le



iDNES.cz / ZPRAVODAJSTVÍ Domácí Zahraničí Krimi Kraje Ekonomika Kultura Finance

iDNES.cz / ZPRAVODAJSTVÍ Domácí Zahraničí Krimi Kraje Ekonomika Kultura Finance
HBO GO NA 5 TYDNU ZDARMA!

Vše pro zdravotnictví. Vysoká škola báňská vyrábí 3D ochranné štíty

30. března 2020 14:30
Porodní asistentky, anesteziologové, operatři i zdravotní sestry ostravské fakultní nemocnice už testují první desítky ochranných plastových štítů vyrobených Vysokou školou báňskou – Technickou univerzitou Ostrava. Ta zhlídla ze všech dostupných 3D tiskáren tiskovou farmu, jež produkuje přes dvě stovky štítů denně.



Teď se ukazuje, jak jsou technické univerzity zrospěšně, říká prorektorka

12. dubna 2020 18:55
ednou z institucí v moravskoslezském regionu, která se začala podílet na boji proti pandemii koronaviru, je i Vysoká škola báňská – Technická univerzita Ostrava (VŠB-TUO). Její zaměstnanci omáhají zajišťovat například chybějící ochranné a dezinfekční pomůcky. Rozsah této pomoci fibilžuje prorektorka pro vědu a výzkum Jana Kukutschová.



Ivo Vondrák
14. dubna

Teď mi přišel tento vzkaz od prof. Kukutschové z mé Alma mater: "Dobry den, pane hejtmane, dnes predana posledni varka lihove dezinfekce (4420l), celkem jsme Vam predali 26 170 litru dezinfekce." Moc za tuto pomoc dukujeme. Hlavne proto, ze jsme ji dostali v okamziku, kdy nam vsem bylo nejhuře."

29 komentářů
21 sdílení

To se mi líbí Okomentovat Sdílet

Ostrava Humoráda 16:01 - 17:00

TECHNOLOGIE Program Pořady Audioarchiv Playlists Lidé Kamery

zít další komentáře (10)

Ivana Gajdaczkova
❤️❤️❤️

To se mi líbí Odpovědět 11

Regina Vřeská My mohli podat občanům

V ostravském centru 3D tisku vznikají ochranné pomůcky pro zdravotníky

27. března 2020 | Zprávy



Vysoká škola báňská - Technická univerzita Ostrava (VŠB-TUO) | foto: František Tichý, Český rozhlas

- Kdo jsme
- > Kontakty, mapy, parkování
- Kampus
- Kalendář
- > Novinky
- Management kvality

Stránka Centrum reklam Doručit Události Creator Studio Upozornění Další

Vysoká škola báňská - Technická univerzita Ostrava
@vsbtuo

Hlavní stránka
Informace
Přispívky
Události
Fotky
Video
YouTube
Instagram
Twitter
Hodnocení
Komunita
Skupiny
Dobročinné sbírky
Propagovat
Navštívit Centrum reklam

16 501 3 362

Information center to help fight coronavirus

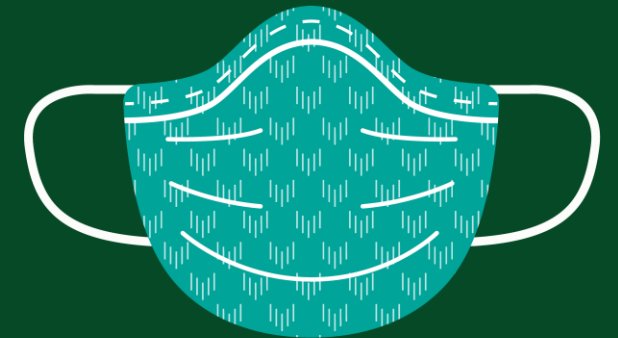
The Coronavirus Help Information Center was established at [the Faculty of Safety Engineering](#). It is the only faculty of this kind in the Czech Republic that deals with crisis management in similar situations.

The Information center is intended for people who are interested in getting involved with further help or, on the contrary, for those who need help themselves. For these purposes, the University has also set up a special e-mail address pomahame@vsb.cz and telephone lines.

WE'RE HELPING THE FIGHT
AGAINST THE COVID-19 PANDEMIC



CORONA WARS



**YOU CAN STOP TO INCREASE
THE EPIDEMIC RATE**

New filter for masks and half masks

The Center for Advanced Innovation Technologies has developed a new filter for masks and half masks, which is intended to simplify the work of people in the first line – the paramedics, firefighters or police officers. It contains a reactor that disinfects the air.

It is able to eliminate any biological organisms in the air and is completely harmless to its users. It is also characterized by a long service life, lasting up to 10,000 hours.

It is currently being tested by the Health Institute in Ostrava.

It is ready to be commercialized.

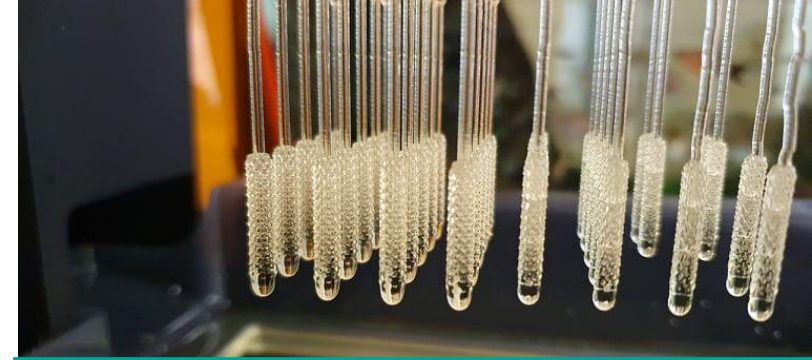


Testing the presence of the virus using sampling rods from a 3D printer

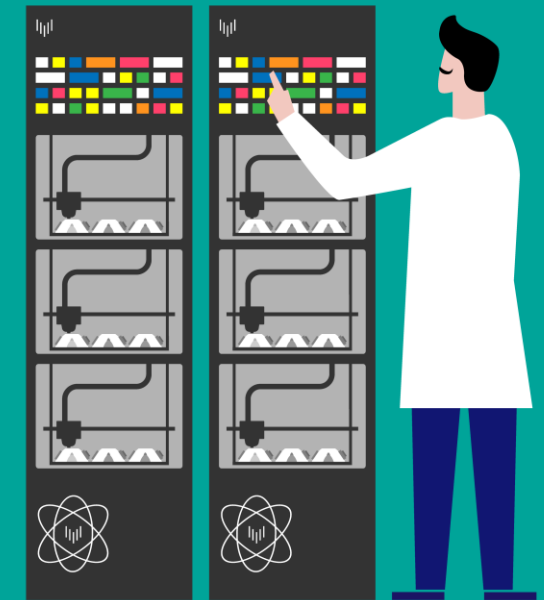
The PROTOLAB 3D Printing center has also started the development of sampling rods for detecting the presence of the virus in the human body.

The production takes place on a stereolithographic laser 3D printer, the principle of which consists in curing the liquid (dental) resin with a laser. It is used in the production of splints, retention braces and so on.

The first sampling rods are currently being tested at the Health Institute in Ostrava.



WE'RE HELPING THE FIGHT
AGAINST THE COVID-19 PANDEMIC



Respirators and shields for paramedics

VSB – Technical University of Ostrava, in the lead with the [PROTOLAB 3D Printing center](#) and fourteen other University departments, has set out to fight the COVID-19 infection by creating protective shields and respirators for people in the first line – the paramedics. 3D printers were also lent by leisure centers, children's and youth homes, grammar schools, primary and secondary schools or individuals.

The University then distributed the finished products to various places in the Moravian-Silesian Region, especially hospitals, homes for the elderly, hospitals for the long-term sick, charities and private surgeries. Tens of shields have also been delivered to the neighbouring University Hospital Ostrava. Protective shields were also supplied to the Military University Hospital in Prague.

In total, almost [7,000](#) of them were produced by our University.



Disinfection for the Moravian-Silesian Region

VSB-TUO has prepared disinfection for the Moravian-Silesian Region as well as its medical facilities and public transport.

The Faculty of Mining and Geology, the Faculty of Materials Science and Technology, the Institute of Environmental Technologies and the Nanotechnology Center staff worked on it.

By April 15, the University had handed over 26,170 litres of disinfection to the Moravian-Silesian Regional Authority.



WE'RE HELPING THE FIGHT
AGAINST THE COVID-19 PANDEMIC

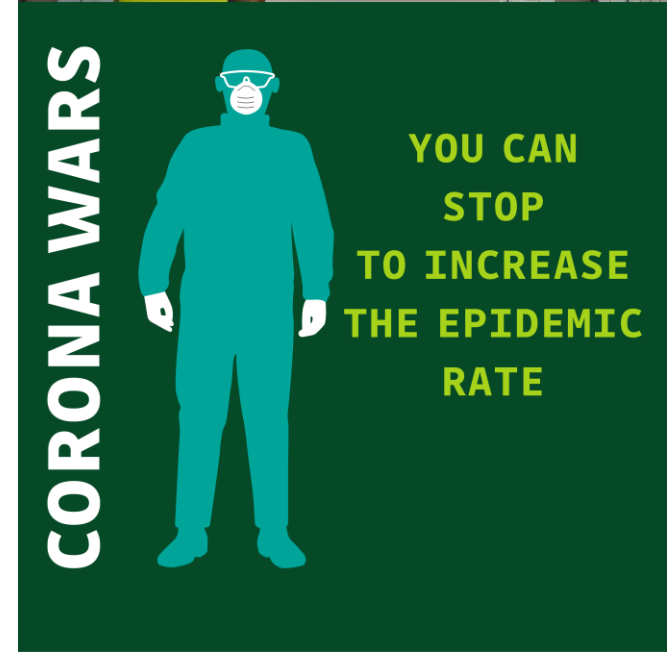


We provide help thanks to the support of others

IT4Innovations National Supercomputer Center was created thanks to the European funds and is a research center with strong international ties. Not only this center, but also our other buildings, laboratories, machines and teams were funded with the support of the European Union. For example, the Operational Program Research and Development for Innovation, the IT4Innovations Centre of Excellence Project received a contribution from the EU of CZK 1,546,566,705.

Thanks to EU support, we can now help even more and faster.

We are also a proud member of the alliance of 8 European universities called U!REKA (The Urban Research and Education Knowledge Alliance). It is the connection of interested universities and cities in which the universities are based, and it creates a unique teaching and research space. The core concept of this consortium is the creation of the so-called "urban laboratory" or a problem-solving test for current cities.



Supercomputers against coronavirus

The IT4Innovations national supercomputer center at VSB – Technical University of Ostrava has also taken part in the fight against the infection.

IT4Innovations has offered the computing capacity mainly to research users, such as the Institute of Organic Chemistry and Biochemistry of the ASCR or CEITEC. It may not only be the development of drugs, but also, for example, the development of nanomaterials to support the fight against coronavirus or to model the spread of the epidemic.



WE'RE HELPING THE FIGHT
AGAINST THE COVID-19 PANDEMIC

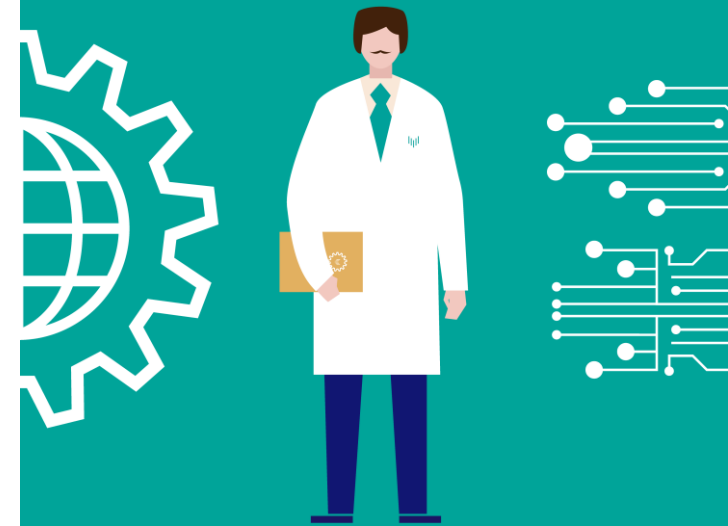


The supercomputer evaluates the impact of measures taken against the spread of the epidemic

In cooperation with T-Mobile Czech Republic a.s. the Ostrava Supercomputer evaluates information on population movement for the needs of the state. The Government Office of the Czech Republic can thus evaluate the effects of the implemented measures against the spread of the disease on the mobility of its inhabitants. It processes anonymized records from the mobile network and provides in an aggregated form information on movements with granularity up to basic territorial units. There is also [the Mobility Atlas of the Czech Republic portal](#), which is operated by VSB – Technical University of Ostrava.



WE'RE HELPING THE FIGHT
AGAINST THE COVID-19 PANDEMIC



Other activities of VSB - Technical University of Ostrava in the fight against coronavirus:

- **Every mask counts:** VSB-TUO invited its students and employees to sew masks and leave them in collection boxes in various parts of the city of Ostrava. The City then handed over the masks to places where they were lacking.
- **ESN VSB-TUO prepared instructions for sewing masks for foreign students:** The student organization ESN VSB-TU Ostrava cut fabrics, prepared needles and threads as well as instructions for sewing masks for foreign students of the University. And as ESN really had a lot of fabrics, they donated a part of them to the organization Mask is cool.
- **The VSB-TUO Esport classroom and University students made their computers available to science in a call from the NVIDIA Company.**
- **Legal support during coronavirus under the patronage of the VSB-TUO Innovation Support Center:** Free legal assistance related to the current situation was offered by Frank Bold, 3 Lawyers and Czech Invest. They help citizens, local governments and, above all, companies and small businesses free of charge in legal matters.
- **Carsharing with CPIT-EHAKL:** The CPIT-EHAKL workplace has small vans, which it offers for the distribution of masks and other materials.

What else are we planning?

Our developed new technologies and materials will help in the fight with coronavirus.

However, we also deal with other areas that relate to our focus and importance for all mankind, e.g. drought or mitigation of environmental burdens on the landscape.

- Coverage of 5G networks will be tested for the first time within the Czech Republic in our Campus. Our unique campus in Ostrava-Poruba works as a live laboratory for testing innovations.
- Together with the University Hospital in Ostrava, we organize joint workshops and we also operate a joint laboratory.
- And much more ...



Thank you for your attention

Prof. Václav Snášel, Rector

vaclav.snasel@vsb.cz

www.vsb.cz