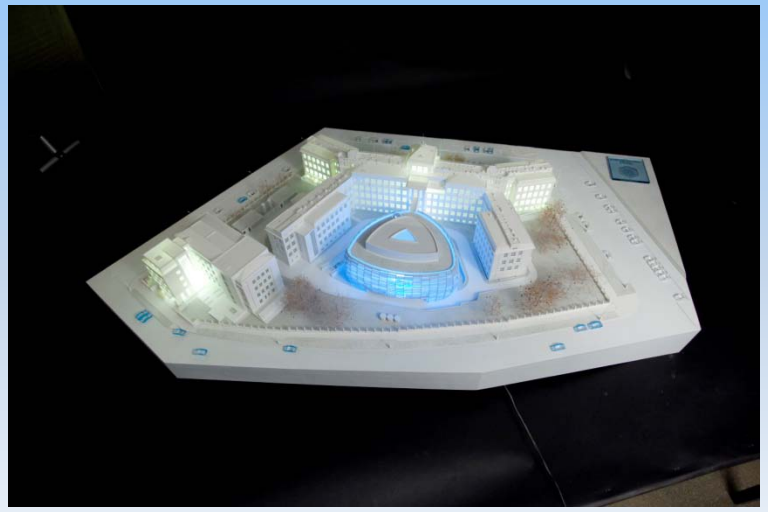
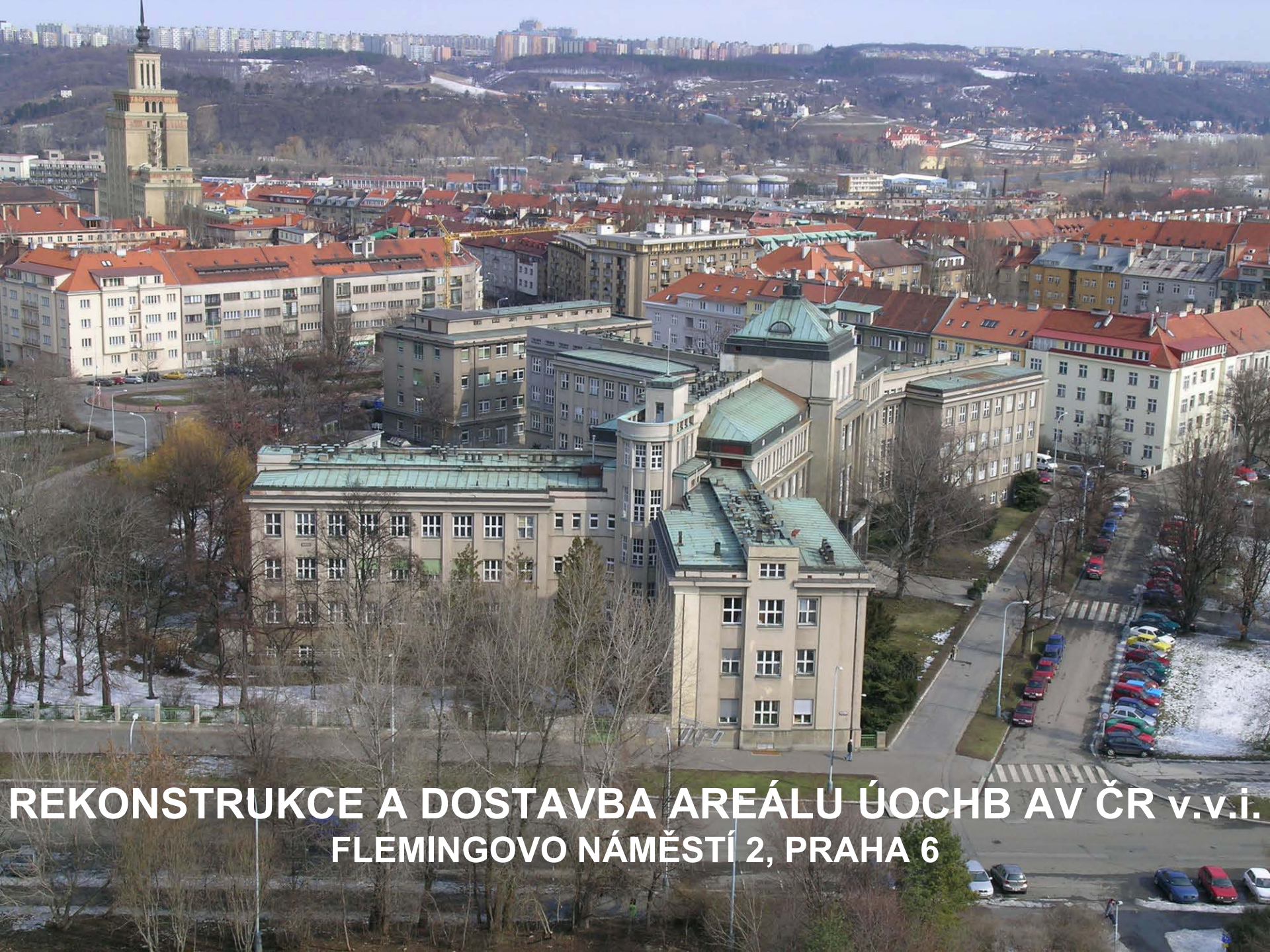
Porada vedoucích

Meeting with Team Leaders

IOCB Reconstruction update

Presented by vice-director Jiří Špička





REKONSTRUKCE A DOSTAVBA AREÁLU ÚOCHB AV ČR v.v.i.

FLEMINGOVO NÁMĚSTÍ 2, PRAHA 6

Inovace Laboratoří II

Dokončeno: 8/2010


BLOCK
creating conditions
BLOCK
creating conditions
BLOCK
creating conditions

Energocentrum

Zahájeno:	3/2010
Zkolaudováno:	12.11.2010
Plný provoz:	12/2010


PHOENIX
ZEPPELIN
CAT


RH1-D
RH1-T

Vila Břevnov (Šultysova)

Zahájeno: 6/2010
Zkolaudováno: 19.10.2010


15/01/2008


MAN
05/06/2010


13/06/2010

Papírenská – hala A (1. etapa)

Zahájeno:	7/2010
Dokončeno:	12/2010 (předpoklad)


19/07/2010


24/08/2007

Papírenská – hala B (2. etapa)

Dokončeno: 12/2011
(předpoklad)

Budova C

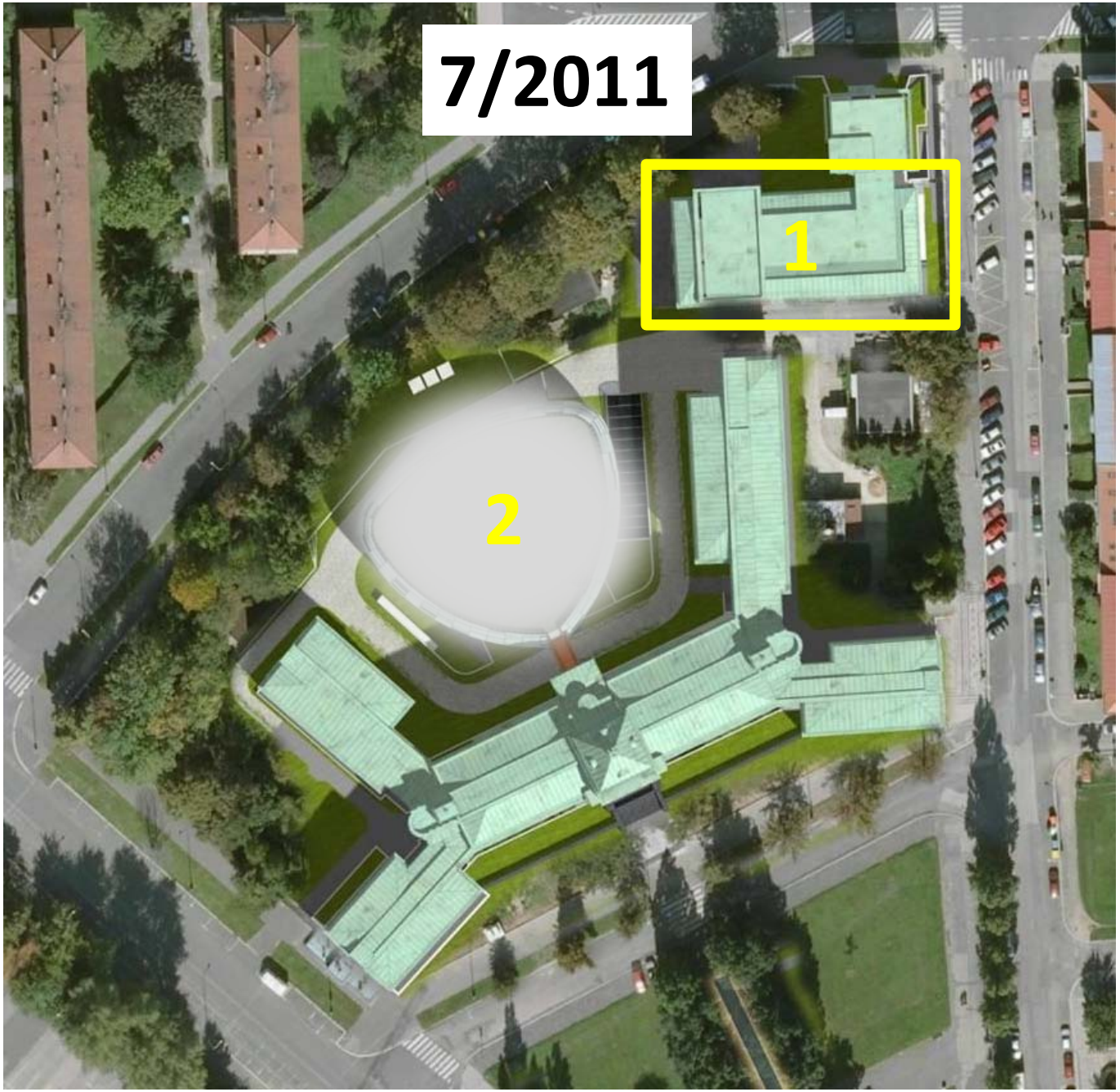
Zahájeno:	7/2010
Dokončeno:	9/2011 (předpoklad)

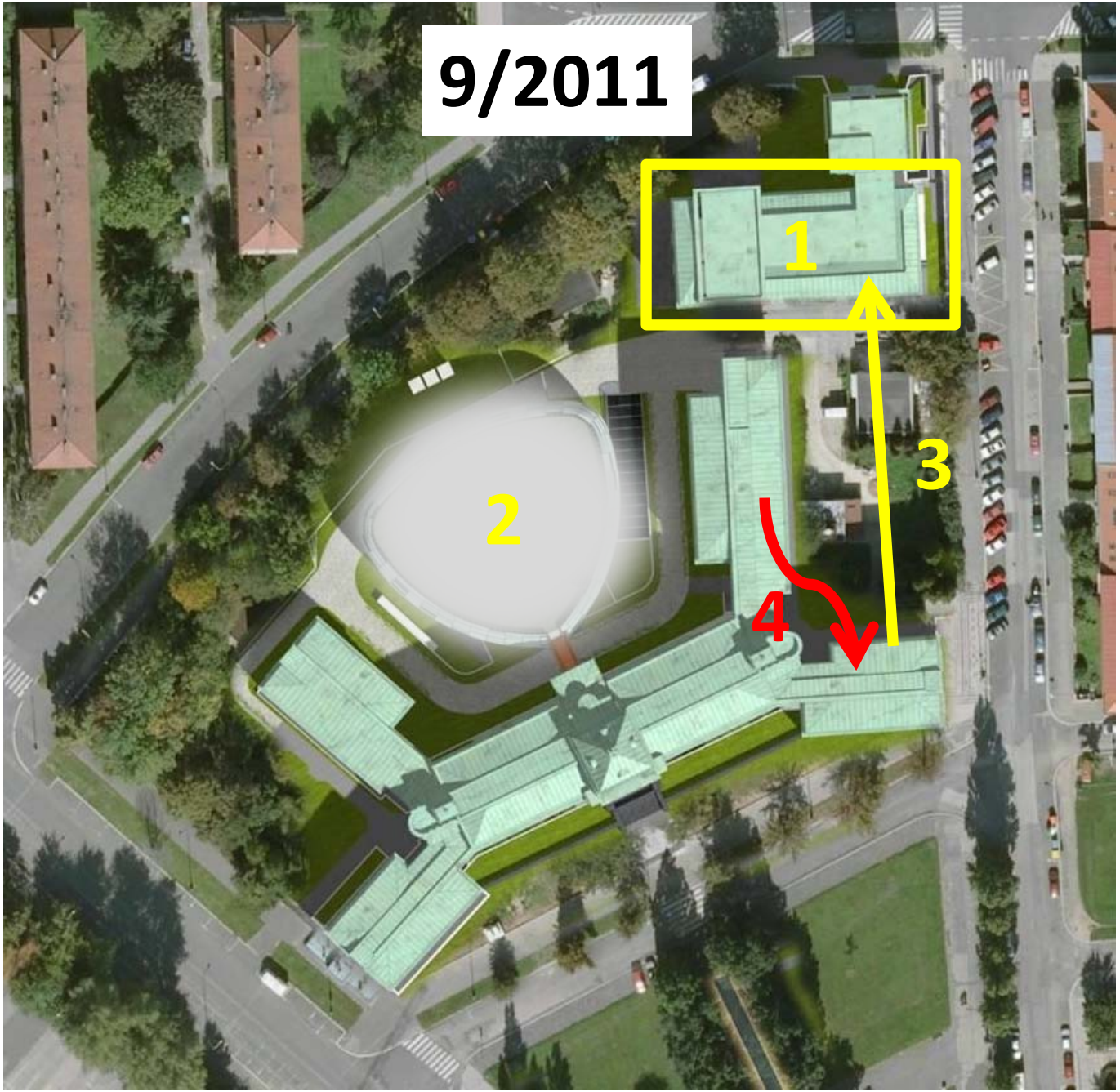
	3/2010	11/2010		náklady (tis. Kč bez DPH)	
Inovace laboratoří II (1., 2., 3. etapa)	před zahájením	dokončeno 8/2010		40 106	dle SoD
Energocentrum	zahájeno 3/2010	zkolaudováno (12.11.2010)	plný provoz od 12/2010	78 152	dle SoD
Vila Břevnov (Šultysova)	připravován tendr	zkolaudováno (19.10.2010)		14 384	dle SoD
Papírenská - hala A (I. Etapa)	připravován tendr	předpokládané dokončení 12/2010 (dle SoD 2/2011)	zkrácení termínu	18 616	dle SoD
Papírenská - hala B (II. Etapa)	záměr	dokumentace pro územní řízení	předpoklad dokončení: 12/2011	44 100	odhad (DUR)
Budova C	připravován tendr	probíhá rekonstrukce	předpoklad dokončení 9/2011	307 773	dle SoD
Budovy A+B	dokumentace pro územní rozhodnutí	pravomocné územní rozhodnutí (30.10.2010)		1 800 000	odhad (DUR)
Garáže v areálu	xxxxxxxx	dokumentace pro stavební povolení	zahájení realizace v r. 2011	35 800	odhad (DSP)

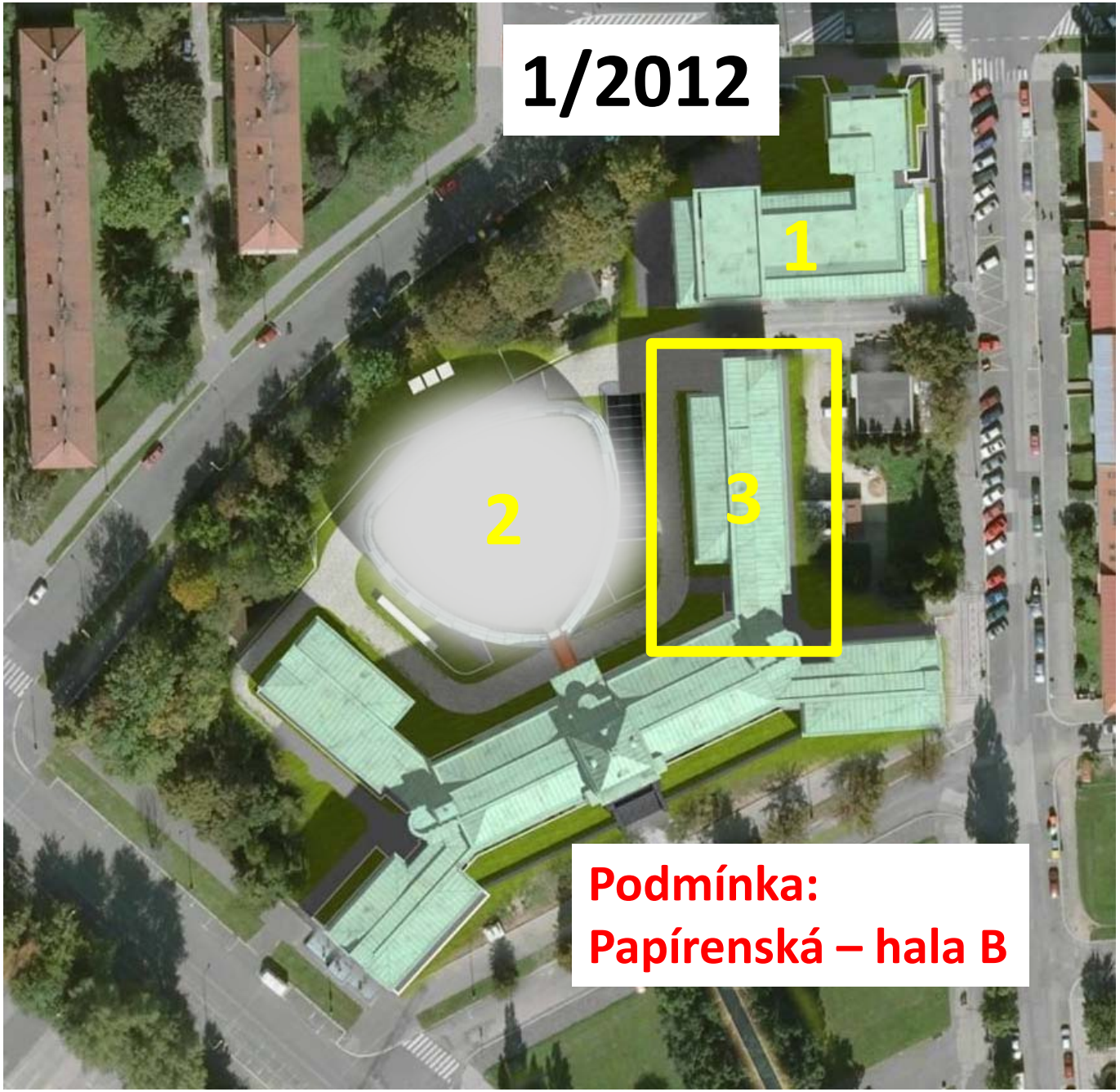
Související akce

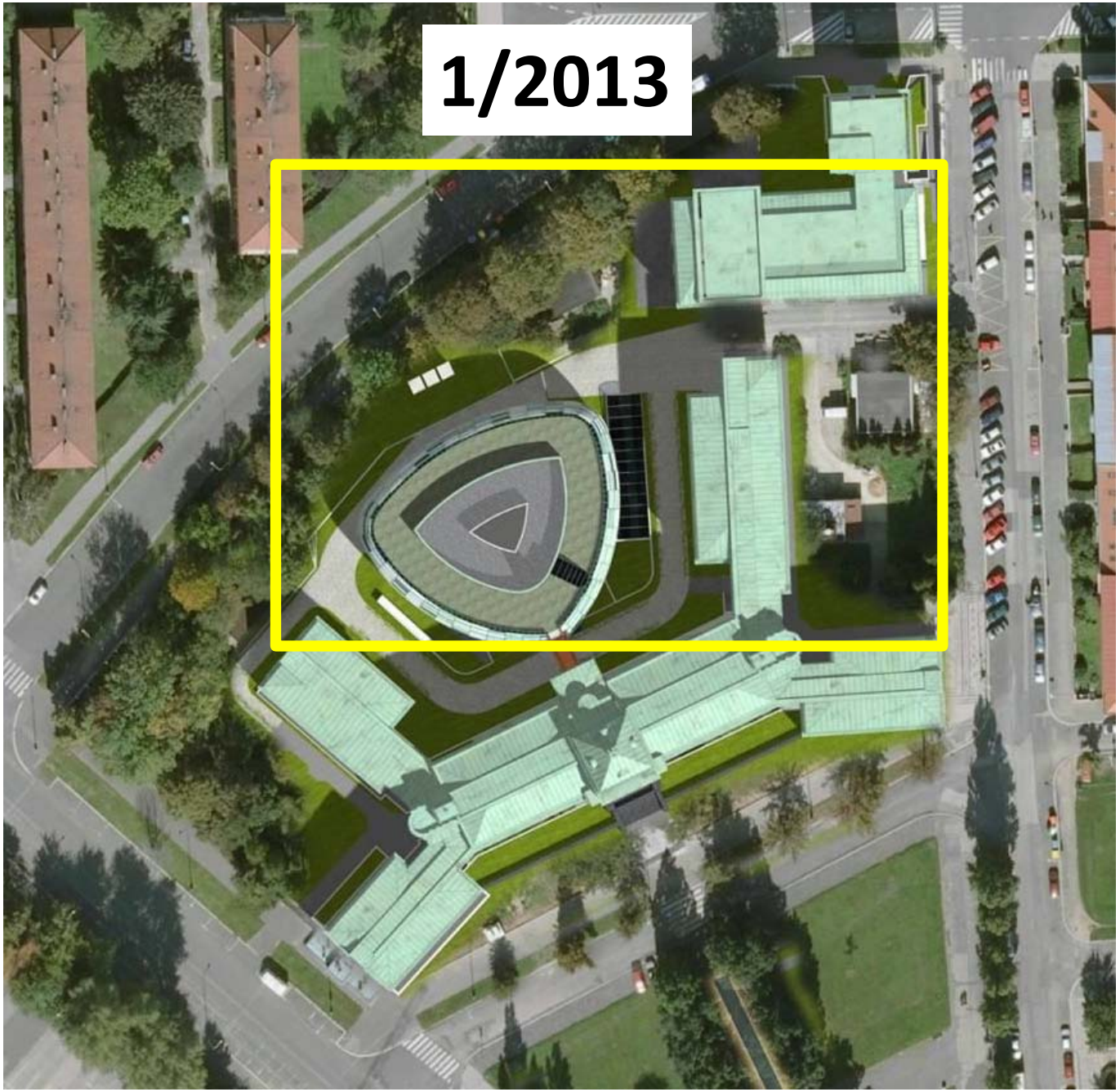
- Přesun vývojových dílen
- Vjezd z ul. Bechyňova
- Protihlukové stěny
- Rekonstrukce EPS v budově A

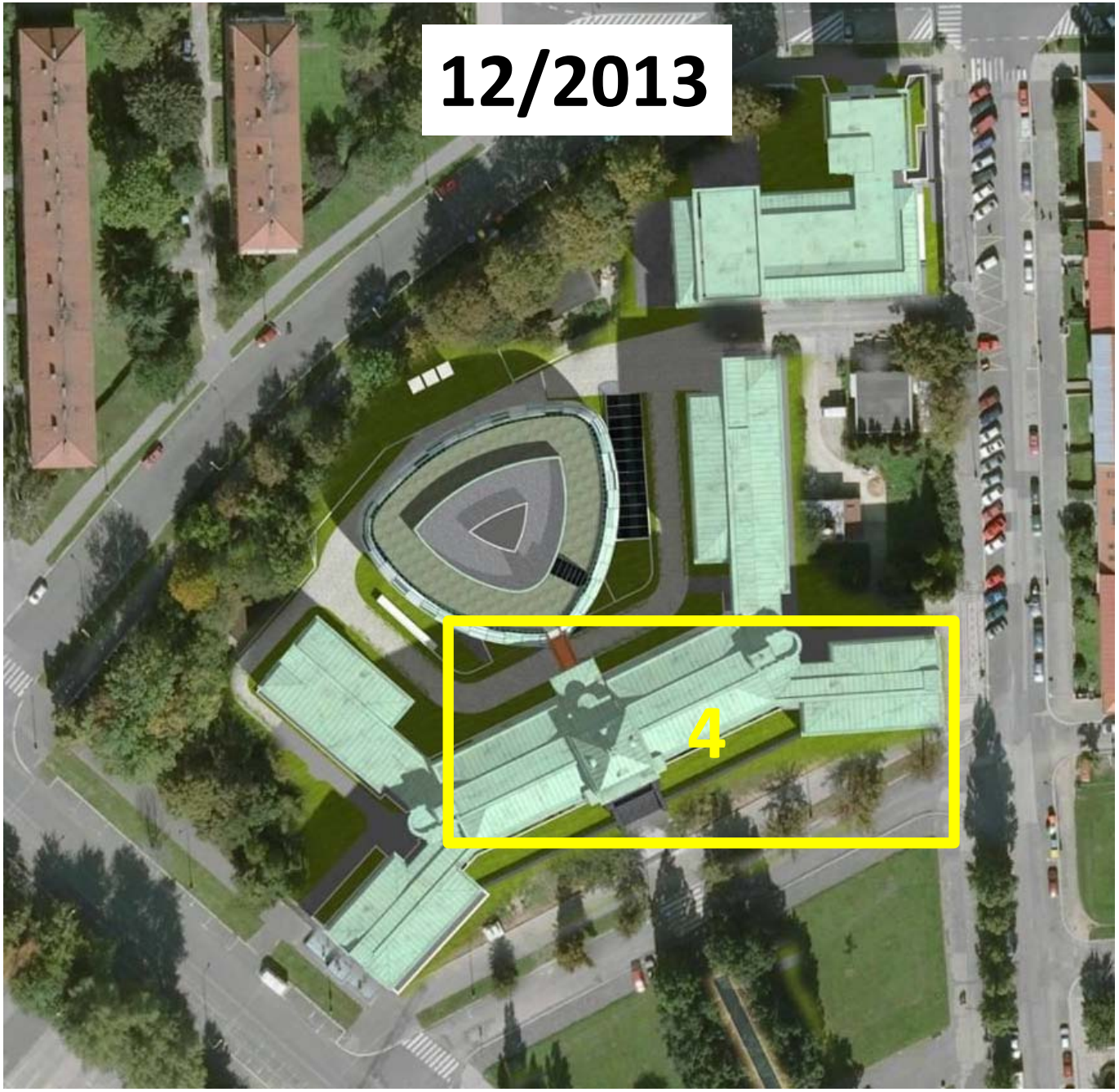
POSTUP VÝSTAVBY

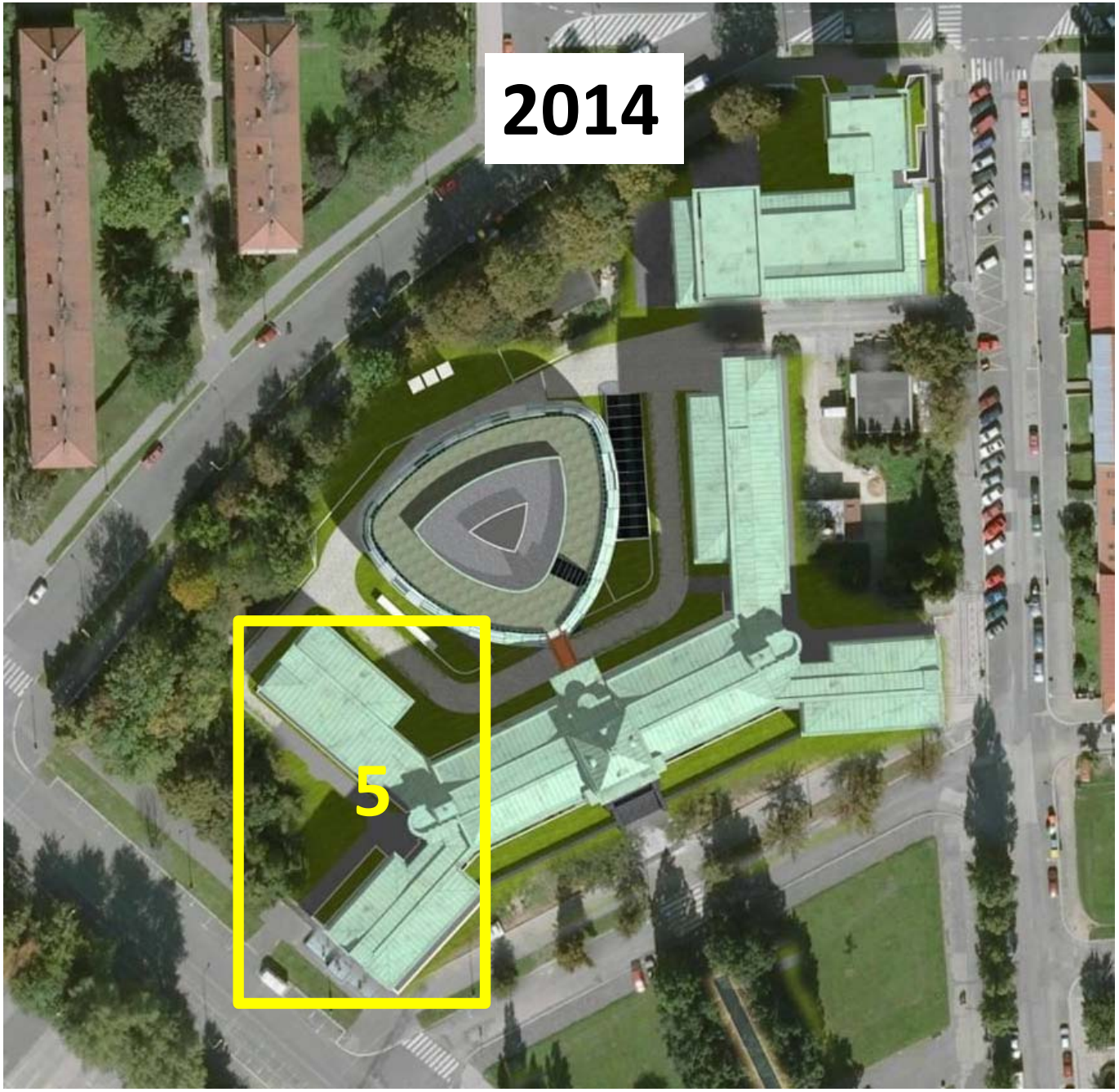

7/2011
1
2

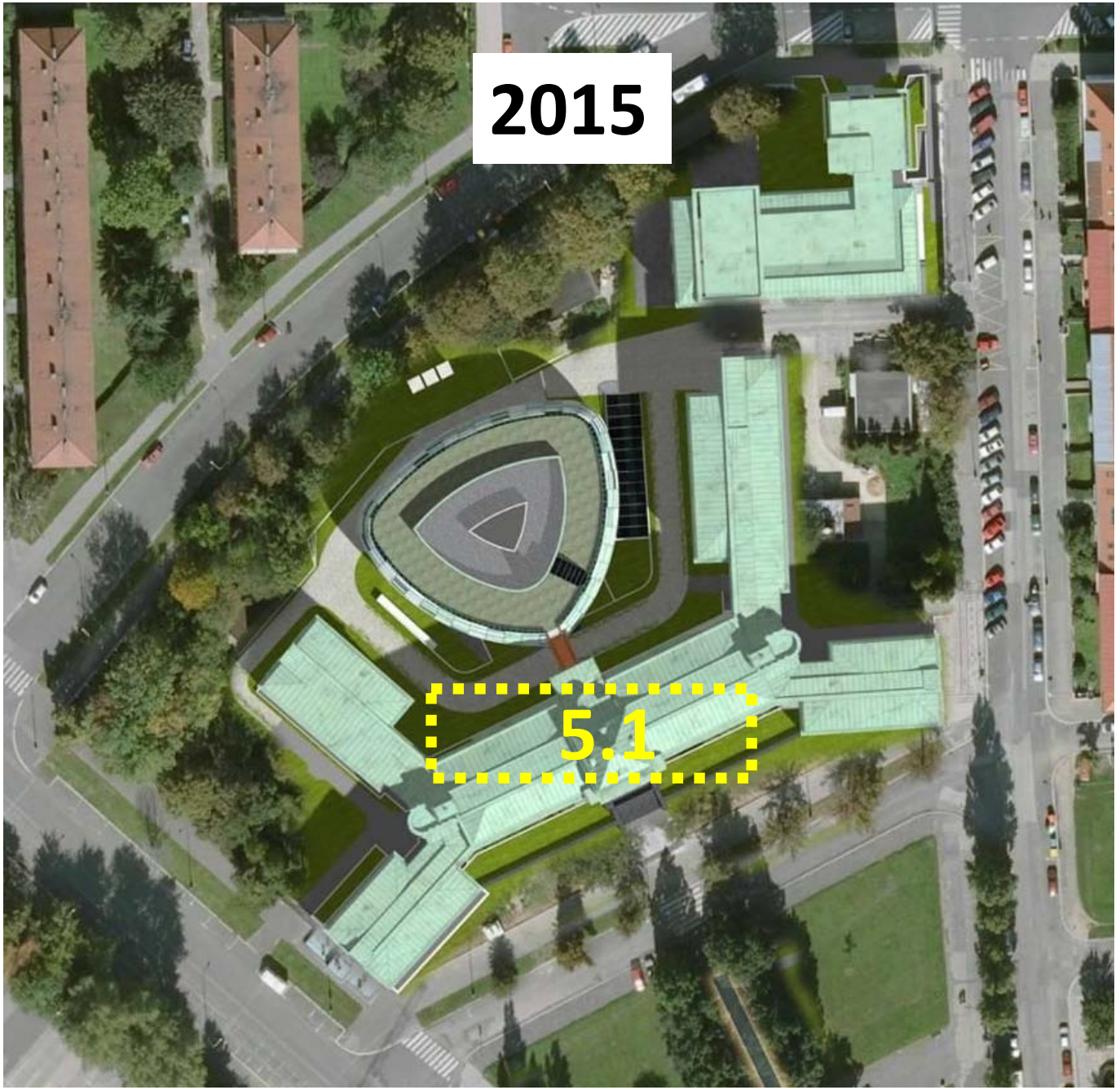

9/2011
1
2
3
4


1/2012
1
2
3
Podmínka:
Papírenská – hala B


1/2013


12/2013
4


2014
5


2015
5.1

Rekonstrukce a dostavba areálu ÚOCHB AV ČR, v.v.i.
harmonogram

BUDOVA „C“ – 9/2011 (9/2011, 5/2011)

BUDOVA „B“ – 11/2012 (6/2012, 3/2012)

BUDOVA „A“ – 2014/15 (2015)

Papírenská – hala B
II. Etapa

- **realizace haly B (Papírenská) je podmínkou zahájení rekonstrukce budovy A před dokončením budovy B**

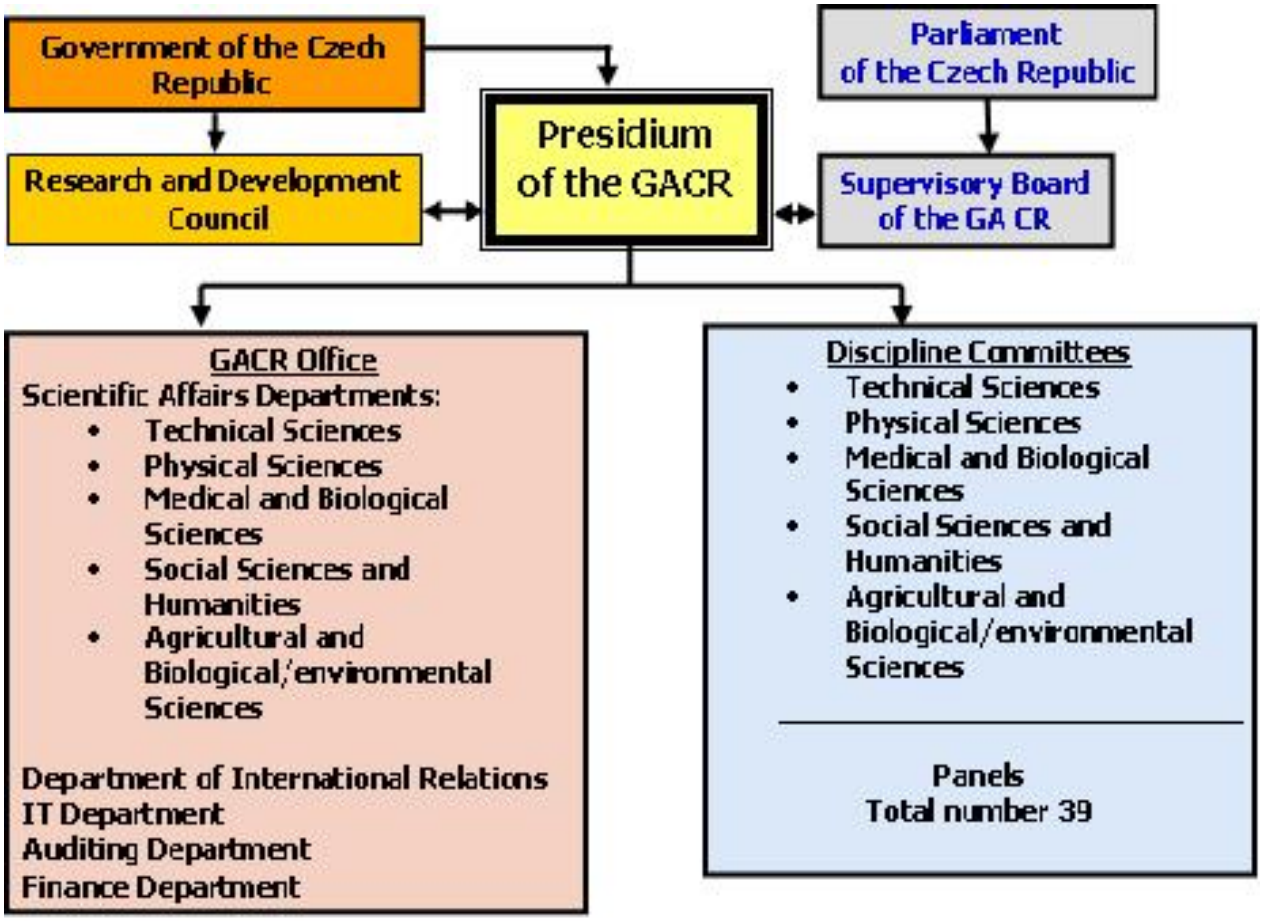
- **umožní zkrátit rekonstrukci areálu cca o 1 rok**

- **náklady na realizaci budou kompenzovány zkrácením rekonstrukce**


ChemOffice

Grant Agency of the Czech Republic

Presented by Prof. Michal Hocek


Government of the Czech Republic
Parliament of the Czech Republic
Presidium of the GACR
Research and Development Council
Supervisory Board of the GA CR
GACR Office
Scientific Affairs Departments:
• Technical Sciences
• Physical Sciences
• Medical and Biological Sciences
• Social Sciences and Humanities
• Agricultural and Biological/environmental Sciences
Department of International Relations
IT Department
Auditing Department
Finance Department
Discipline Committees
• Technical Sciences
• Physical Sciences
• Medical and Biological Sciences
• Social Sciences and Humanities
• Agricultural and Biological/environmental Sciences
Panels
Total number 39

Presidium

Prof. PhDr. Petr Matějů, PhD. – **President, Social Sciences and Humanities**
Institute of Sociology of the Academy of Sciences of the Czech Republic
Prof. RNDr. Ivan Netuka, DrSc. – **Physical Sciences**
Faculty of Mathematics and Physics of Charles University in Prague
Prof. MUDr. Cyril Höschl, DrSc., FRCPs – **Medical and Biological Sciences**
Prague Psychiatric Center
Prof. RNDr. Bohuslav Gaš, CSc. – **Technical Sciences**
Faculty of Science of Charles University in Prague
Prof. Ing. Otomar Linhart, DrSc. – **Agricultural and Biological/environmental Sciences**
Research Institute of Fish Culture and Hydrobiology at Vodnany, University of South Bohemia in Ceske Budejovice

Discipline Committees are set in following areas:

Technical Sciences
chair: **Prof. Ing. Václav Švorčík, DrSc.** - The Institute of Chemical Technology, Prague
Physical Sciences
chair: **Prof. RNDr. Jan Slovák, DrSc.** - Masaryk University in Brno
Medical and Biological Sciences
chair: **Prof. RNDr. Ivan Raška, DrSc.** - Charles University in Prague, 1st Faculty of Medicine
Social Sciences and Humanities
chair: **Doc. Ing. Štěpán Jurajda, Ph.D.** - The Economics Institute of the Academy of Sciences of the Czech Republic
Agricultural and Biological/environmental Sciences
chair: **RNDr. Petr Baldrian, Ph.D.** - The Institute of Microbiology of the Academy of Sciences of the Czech Republic

Discipline panels

1. Technical Sciences
P101 - Mechanical engineering
P102 - Electrical engineering and electronic engineering
P103 - Cybernetics and information processing
P104 - Construction materials, architecture
P105 - Structural mechanics and construction, fluid mechanics
P106 - **Technical chemistry**
P107 - **Material preparation and metarullgy**
P108 - **Materials sciences and engineering**
2. Physical Sciences
P201 - Mathematics
P202 - Informatics
P203 - Atomic, nuclear and elementary particles physics, low temperature physics
P204 - Condensed matter and materials physics
P205 - **Biophysics, macromolecular physics, plasma physics and optics**
P206 - **Analytical chemistry - chemical and structural analysis of atomic, molecular and biomolecular systems**
P207 - Chemical and biochemical transformations
P208 - **Chemical physics and physical chemistry**
P209 - Astronomy and astrophysics, atmospheric physics, meteorology, climatology and hydrology, physical geography
P210 - Geophysics, geochemistry, geology and mineralogy, hydrogeology
3. Medical and Biological Sciences
P301 - **Genetics, experimental oncology, medical biochemistry, toxicology, metabolism and nutrition**
P302 - **Morphological disciplines, microbiology, immunology, epidemiology and hygiene**
P303 - **Physiological disciplines, pharmacology, neurosciences**
P304 - Clinical and preclinical research, experimental medicine
P305 - **Molecular, cellular and evolutionary biology**
5. Agricultural and Biological/environmental Sciences
P501 - **Plant physiology and genetics, plant medicine**
P502 - Animal physiology and genetics, veterinary medicine
P503 - **Food technology, ecotoxicology and environmental chemistry**
P504 - Landscape cultivation, forestry and soil biology, ecosystem ecology
P505 - **Animal and plant ecology**
P506 - Botany and zoology

Membership of IOCB scientists in panels

P207 – Chemické a biochemické přeměny
Prof. Ing. Vladimír Křen, DrSc. – předseda, Mikrobiologický ústav AV ČR, v.v.i., 2009
Doc. Ing. Aleš Růžička, Ph.D. – místopředseda, Univerzita Pardubice – Fakulta chemicko-technologická, 2009
RNDr. Petr Bartůněk, CSc., Ústav molekulární genetiky AV ČR, v.v.i., 2009
Ing. Jana Bludská, CSc., Ústav anorganické chemie AV ČR, v.v.i., 2009
Doc. Ing. Jan Čermák, CSc., Ústav chemických procesů AV ČR, v.v.i., 2009
Doc. Ing. Michal Hocek, DSc., Ústav organické chemie a biochemie AV ČR, v.v.i., 2009
Prof. RNDr. Jaromír Plášek, CSc., Univerzita Karlova v Praze – Matematicko-fyzikální fakulta, 2009
Doc. Ing. Marie Sedlaříková, CSc., Vysoké učení technické v Brně – Fakulta elektrotechniky a komunikačních technologií, 2009
Doc. Ing. Zdeněk Sobalík, CSc., Ústav fyzikální chemie J. Heyrovského AV ČR, v.v.i., 2009
Doc. RNDr. Petr Štěpnička, Ph.D., Univerzita Karlova v Praze – Přírodovědecká fakulta, 2009
Ing. Jan Teisinger, CSc., Fyziologický ústav AV ČR, v.v.i., 2009
Prof. Ing. Zdeněk Wimmer, DrSc., Ústav experimentální botaniky AV ČR, v.v.i. – Izotopová laboratoř, 2009

P208 – Chemická fyzika a fyzikální chemie
Dr. Detlef Schröder – místopředseda, Ústav organické chemie a biochemie AV ČR, v.v.i., 2009
Doc. Mgr. Pavel Jungwirth, CSc., Ústav organické chemie a biochemie AV ČR, v.v.i., 2009

P206 – Analytická chemie – chemická a strukturní analýza atomárních, molekulárních a (bio) molekulárních systémů
RNDr. Václav Kašička, CSc., Ústav organické chemie a biochemie AV ČR, v.v.i., 2009

P303 – Fyziologické obory, farmakologie, neurovědy
Ing. Blanka Železná, CSc., Ústav organické chemie a biochemie AV ČR, v.v.i., 2009

P505 – Ekologie živočichů a rostlin
Doc. RNDr. Irena Valterová, CSc., Ústav organické chemie a biochemie AV ČR, v.v.i., 2009

P207 – Chemické a biochemické přeměny

covers **inorganic and organic chemistry and "chemical" aspects of biochemistry**

there must be interesting chemical aspects (chemical transformations)

Do působnosti panelu P207 náleží projekty základního chemického a biochemického výzkumu, tedy projekty z chemie anorganické, koordinační, organokovové a organoprvkové, organické, bioorganické a medicinální chemie, a biochemie zaměřené na přípravu chemických sloučenin a na studium přeměn molekul ve stechiometrických i katalyzovaných dějích. Předpokládaným výstupem takových projektů je netriviální rozšíření stávajícího poznání v konkrétním oboru (oblasti), které je prezentováno formou publikací v mezinárodních odborných časopisech, eventuelně patentů. Panelu P207 nepřísluší projekty aplikovaného výzkumu a projekty z oblasti chemické technologie a materiálové chemie a dále projekty zaměřené výhradně na teoretické chemické studie a molekulární biologii, které posuzují panely jiné.

ca 90 standard grant applications – ca 17-20 awarded standard grants

ca 20 postdoctoral grant applications – ca 5 awarded postdoctoral grants

Awarded grants: 3-6 inorganic, 7-9 organic, 3-6 biochemistry

2009: IOCB – 6 grants (4 organic, 2 biochemistry) out of ca 40 applications
2010: IOCB – 6 grants (2 organic, 2 medicinal, 2 biochemistry) out of ca 30 applications

other IOCB grants: 3 (208), 1 (303), 1 (305)

Overall success of IOCB proposals

2009	podané	přijaté (rešení od 2010)	pozice UOCHB u projektů přijatých	úspěšnost (%)
bilaterálni	1	0		
postok.	6	2		
standard	53	17		
celkem	**60**	**19**	15 - hlavní nebo jediný příjemce 4 - spolupříjemce	**31,67**

2010	podané	přijaté (rešení od 2011)	pozice UOCHB u projektů přijatých	úspěšnost (%)
bilaterálni	1	0		
postok.	9	1		
standard	45	12		
celkem ***	**55**	**13**	11 - hlavní nebo jediný příjemce 2 - spolupříjemce	**23,64**

IOCB – 32 research groups (incl. res.-service)

if each group in average needs 3 grants – **96 grants**
(19 5-years, 24 4-years or 32 3-years grants every year)

we must distribute applications to more panels – whoever is relevant!!!!

P106 - **Technical chemistry**
P108 - **Materials sciences and engineering**
P205 - **Biophysics, macromolecular physics, plasma physics and optics**
P206 - **Analytical chemistry - chemical and structural analysis of atomic, molecular and biomolecular systems**
P207 - **Chemical and biochemical transformations**
P208 - **Chemical physics and physical chemistry**
P301 - **Genetics, experimental oncology, medical biochemistry, toxicology, metabolism and nutrition**
P302 - **Morphological disciplines, microbiology, immunology, epidemiology and hygiene**
P303 - **Physiological disciplines, pharmacology, neurosciences**
P305 - **Molecular, cellular and evolutionary biology**
P501 - **Plant physiology and genetics, plant medicine**
P503 - **Food technology, ecotoxicology and environmental chemistry**
P505 - **Animal and plant ecology**

we must apply at other agencies:

Technologická agentura České republiky

MPO, MZd, MV

SEVENTH FRAMEWORK PROGRAMME

erc

new in 2011: ERC CZ

Evaluation of grant proposals – general scheme and policy

Discipline panel:

1. round – each proposal goes to 4 reviewers within the panel members – rating A (30%), B (40%), C (30%)
   panel meeting and discussion – elimination of at least 30% C proposals

- the proposals rated A and B are sent out for external reviews (2-3)
most of the external reviews are very positive (ca 80% A)! – not decisive

2. round – each proposal is evaluated by each panel member (excl. conflicts of interests) taking into account external reviews - rating A (30%), B (40%), C (30%)

final panel meeting – discussion:
– final rating (A (30%), B (40%), C (30%))
– final order of rating (1., 2., 3.,....)
the panel does not know how many proposals will be granted!

3. round – the final ordered list of proposals (A and B) goes to the Discipline committee which makes the final order of rating for the whole branch of sciences (physical sciences, life sciences etc.)

4. round – grants are awarded by the Presidium of GACR !!!! **(they look for duplicities!)**

Some observations from the panel evaluation

• surprisingly high agreement between the evaluation by different panel members (usually there are just several controversial cases, but mostly: AAAB, BBBC, CCCC) panel members don't see the evaluation of others until the deadline!

• little (if any) space for any non-ethical behaviour

• rather little influence of the external reviews (mostly very positive – only in a few cases they downgraded some proposals)

• very detailed and serious discussions in the second round – usually concensual agreement rather than decision by votes

Conflict of interest precautions

• panel member does not evaluate proposals from the same institution – they can stay in the room but cannot speak (positive or negative)

• panel member is not present when proposals of him/her, his/her relatives or members of the same groups or close collaborators are discussed, evaluated and ranked

Evaluation criteria

ca 50% quality of the PI (+ co-PIs and team) – the main applicant is the most important

publications in the last 5 years:
- number + quality of papers
- presence or absence of papers in high-profile journals (Angewandte, JACS, Chemistry, ChemComm, Org. Lett. J. Org. Chem. J. Med. Chem.)
- middle-class journals (Tetrahedron, Eur. J. Org. Chem., BMC) are OK but nowadays almost everybody can publish there
- number of independent citations, h-index (considering the age!)

ca 50% quality of the proposal

- novelty and originality – new concepts (rather than just continuation)
- quality and importance
- clarity of presentation

all the criteria are relative to other applicants and proposals!!!!

only excellent scientists with outstanding proposals get A rating and are funded

Tips for successful proposal

- select a relevant panel (proposals irrelevant to the panel topic are excluded)
- the best scientist of the team should be the applicant
- do not fragment your projects into many related proposals (>3 proposal/year is bad)
- publish your works as high as possible
- don't list mediocre papers in the application (select your best ones)
- find the **right balance between the general and highly specialized view** in the proposal – it will be evaluated by at least 1-2 non-experts that must understand it
  - a good and comprehensible Introduction is crucial
- clearly state the objectives and goals (emphasize what is new on it), some promised deliverables are helpful
- nice figures and schemes are helpful (you must catch the attention of the reviewer)
- non-obvious or risky approaches should be well supported either by relevant literature precedence or by some preliminary "proof-of-concept" studies
- any methodology that is out of your expertise should be supported by adding an expert as co-applicant of member of your team
- never submit the same unsuccessful proposal without significant changes/additions – the panel members are not so stupid and remember past proposals
- ask for appropriate money – the more you ask the better the proposal must be

Running and finishing grants

- **interim and final reports**

rigorous evaluation by the panel !!!

last year 2 running grants were interrupted by the panel due to little progress and no papers

4- and 5-years grants are evaluated after 3 years with the same criteria as finished grants – only if significant progress is made and nice papers published, the panel recommends continuation

final report – there must be at least 1 published paper in RIV – otherwise the grant is classified as “non-fulfilled”, the PI is blacklisted for the next 3 years

typical minimum publication outcome for ranking “fulfilled” –
smaller grants <1 mil. Kc 1 group – 1 paper/year
bigger grants >1 mil. Kc more groups – 2-3 papers/year

Good luck with your 2011 proposals!

University studies

Making Student Data Register of all students educated in the Institute.

The Team leader will inform vice-director Iva Pichová till January 14, 2011:

1. Name
2. Type of student (diploma, Mgr., PhD.)
3. Year of the study
4. University
5. Faculty
6. Supervisor
7. Title of the work

The Student data register will be kept by J. Šípová and supervised by Dr. Pichová, all changes must be reported to them.
The Register will be available on the WEB pages.

Notice: ICT (VŠCHT) will announce topics in January.

Using the personal cards

The personal magnetic cards are used mainly from the security reasons, not for registration of attendance.
If used correctly, we know how many people are in the Institute, later we will know in which sector the people ale located.
Therefore, it is necessary to use it each time you enter or eave the Institute!

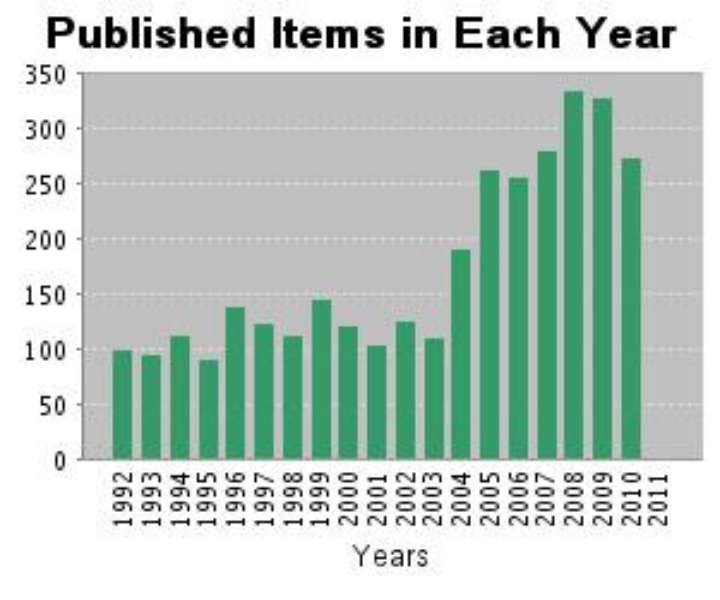
Reconstruction of the electronic fire alarm system (EPS) in building A

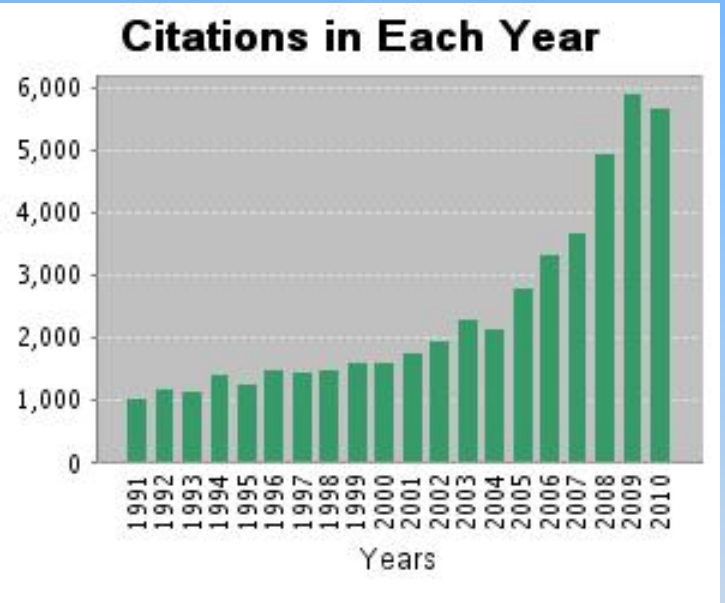
In each room we have to install new fire detector and necessary cables. The room managers will come to an agreement with Bc. Němec about the time of work.

IOCB annual report 2010

Please follow the requirements of Director's order XXX/2010 and the instructions and terms in it.

Publications 2010





Labor rules
(Pracovní řád)

This internal guideline (vnitřní směrnice) applies the Labor Code (Zákoník práce) and is one of the most important guideline of the Institute regulating rights and obligations of both employees and employer.

Please read it carefully and follow the rules.

CA for visiting scientists

Confidentiality agreement

Institute of Organic Chemistry and Biochemistry of the ASCR, v. v. i.
Prague 6, Flemingovo nám. 2
represented by RNDr. Zdeněk Havlas, DrSc., Director
(hereinafter only as the 'Institute')

and

Mr/Ms :
Date of Birth:
Resident at:
ID No.:
Institution :
(hereinafter only as the 'visiting scientist')

conclude this

Confidentiality agreement:

I.

1. The visiting scientist will begin work on :
2. Type of work:
3. Place of work performance (group, supervisor) :

II.

1. The visiting scientist agrees to observe the duties in the area of the protection of intellectual property rights of the Institute and the confidentiality of information to the .....

IOCB instruments

We are going to make an internal web presentation of expensive and useful instruments for better information.
We will include

1. All the instruments over 2M Kč.
2. Instruments which can be eventually used by others.

To complete it, we would need your help, preparing a short descriptions of the instruments.

IOCB guest house

The guest house is intended for the foreign visitors. If you request a room in the house, please contact the personal department.

Energocentrum

Invited Lecture Series

January 5, 2011
Dr. Jiří GRYGAR
Institute of Physics AS CR, Prague, Czech Republic
The Origins of Physics, Chemistry, and Biology or Big Bang is the Culprit
January 25, 2011
Prof. R. Timothy HUNT
Cancer Research UK, Clare Hall Laboratories, South Mimms, London, UK
Avoiding Futile Cycles: Greatwall, Endosulfine, and the Control of Mitosis
February 28, 2011
Prof. Georg POHNERT
Institute for Inorganic and Analytical Chemistry, Jena, Germany
Chemical Signalling in Plankton Communities: Towards an -Omics Approach
March 4, 2011
Prof. Helmut SCHWARZ
Technische Universität Berlin, Institut für Chemie, Berlin, Germany
Selective Bond Activation by Atomic and Metal-Cluster Ions: The Ultimate Single-Site Catalysts
April 13, 2011
Prof. Erick M. CARREIRA
Laboratory of Organic Chemistry, ETH Zürich, Zürich, Switzerland
Discovery and Surprises with Natural Products

Free discussion