



Palace Dvorana, Mšené spa, Czech Republic,
architect Letzel, known as author of Industrial Palace in Hiroshima, Japan



**Balneology
Research
Institute**

public research institute

Balneology Research Institute, public research institution Mšené-lázně, Czech Republic

**Registered in Public Research Institutions Register
managed by The Ministry of Education, Youth and Sports as of 9th June 2011**

Founder and legal conditions

The Balneology Research Institute (BRI, in Cz: Výzkumný Ústav Balneologický - VÚB) was founded by Municipality of Mšené-lázně (Msene spa) under conditions of have concluded, according to Section 30c of Act No. 341/2005 Coll., on Public Research Institutions, as amended. BRI - VÚB is independent, not-for-profit research institution, whose principal activities are oriented in disciple of scientific results and practice of previous Balneology Research Institute, state enterprise, abolished in the year of 1992. Research and Development in the Czech Republic is regulated by the following legal regulations:

- ♦ Act No. 341/2005 Coll. on Public Research Institutions
- ♦ Act No. 342/2005 Coll. on the Amendments of Some Related Acts in connection with the Adoption of the Act on Public Research Institutions

Founder and legal conditions continue



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- ◆ Act No. 130/2002 Coll. on State-Funded Research and Development Support and on the Amendment of Some Related Acts (the Act on the Support of Research, Experimental Development and Innovations)
- ◆ Government Regulation No. 397/2009 Coll. on an Information System for Research, Experimental Development and Innovation
- ◆ Act No. 283/1992 Coll. on the Academy of Sciences of the Czech Republic in the wording of Act No. 220/2000 Coll. and Act No. 342/2005 Coll.

The research and design activities are provided by BRI own manpower or in cooperation with the Czech or foreign research companies. BRI has short history (8 years only), nevertheless the competence of BRI is based on experience of prime professionals in medicine, geology and engineering activities.

Core activities

Research work of the Balneology Research Institute focuses mainly on theoretical and applied areas of

- ♦ **Balneo-medicine**, research of natural remedies impact on organism (central and autonomous neural system, immune system, pain, psyche, hormonal system, etc.) in the spa treatment frame derived from Evidence Based Medicine (EBM); pre-clinical studies
- ♦ Development of proper Spa curative plans (including standards of curative procedures) in relation to the diagnosis groups (in Czech indications) on the base of clinical research and assessment;
- ♦ Research of spa status as postoperative curative centre (e.g. joint replacement, postoperative status of vertebral column, amputation and resultant rehabilitation, etc.)
- ♦ **Balneo-therapy**, determination of success rate and effectiveness of therapeutic curative procedures and its suitability according to individual diagnosis groups; clinical research is needed.
- ♦ Development and verifying of special curative tools (psychomotor therapy products, physiotherapy aid products, wellness apparatus and equipment, etc.) usable in effective spa treatment;

Core activities *continue*

Research work of the Balneology Research Institute focuses mainly on theoretical and applied areas of

- ◆ **Spa geology**, research of proper balneology utilization of natural remedies (mineral water, natural curative gases, peloid) and its protection;
- ◆ Research of geo-medicine characteristics under holistic approach
- ◆ Research of microbiology, hydrobiology, physical-chemical and radioactive characteristics of natural remedies;
- ◆ R&D of up to date processing technology of curative bath mineral water;
- ◆ R&D of bioaugmentation of natural remedies (introduction of a group of natural microbial strains or a genetically engineered variant to treat contaminated soil or water);
- ◆ Pre-clinical research of medical devices curative impact in medical spa and wellness

Core activities *continue*

The Balneology Research Institute has to devote important part of its capacity to transfer of own/foreign identifying research results and technologies with market potential .

Hence:

- ◆ BRI - VUB supports cooperation between spa firms and domestic/foreign research institutions;
- ◆ BRI provides technology and R&D results transfer assistance in co-operation with The Technology Centre of the Academy of Sciences of the Czech Republic.

Core activities continue

The Balneology Research Institute (BRI) provides design and implementation activities in the sphere of domestic and foreign health.

- ◆ BRI offers a broad range of services for the health investments mainly in the spa industry, and services for the statutory assuring of the investments projects and services for the procurement.
- ◆ BRI can provide complete multidiscipline engineering and design services by own manpower as well as complete project procurement including construction site management, commissioning and start up. BRI can provide all mentioned services in Czech and English.
- ◆ BRI provides competitive turn-key projects having reasonable total investment costs.

Other activities

BRI / VUB provides news

- ◆ Balneology scientific and research monograph publishing (The Future of Spa, Horizon 2018 - 2033)
- ◆ Consultant services incl. M&A services for Spa Companies (looking for investors or sellers)
- ◆ Arrangement of domestic and international conferences in balneology
- ◆ Expert opinion services on balneology and natural remedies

Management, Board of RIB – VÚB

Management

- ◆ Ing. Frantisek Och, director

VÚB, v.v.i. Board

- ◆ Ing. Frantisek Och, chairman
- ◆ Ing. Josef Bíža, vicechairman
- ◆ Prof. MUDr. Vladimír Bencko, DrSc, vicechairman
- ◆ MUDr. Ľubomír Mankovecký, CSc, vicechairman
- ◆ RNDr. Jiří Schlanger, vicechairman
- ◆ Ing. Michaela Polidarova, vicechairman
- ◆ RNDr. Ondřej Mráz, vicechairman

External cooperation continue



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Cooperation with entrepreneurial and municipal sphere

- ◆ Spa Msene, plc
- ◆ Spa Hotel Vráž u Písku, ltd
- ◆ Healing Spa Lazne Kynžvart, state ent.
- ◆ Healing Spa Bludov, state ent.
- ◆ Hospital Krajská zdravotní Ústí nad Labem, plc
- ◆ Association of the Spa Places CR
- ◆ Municipal authority Franzesbad
- ◆ Municipal authority Msene-lazne
- ◆ Institute of Public Health in Usti nad Labem

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public research institute

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