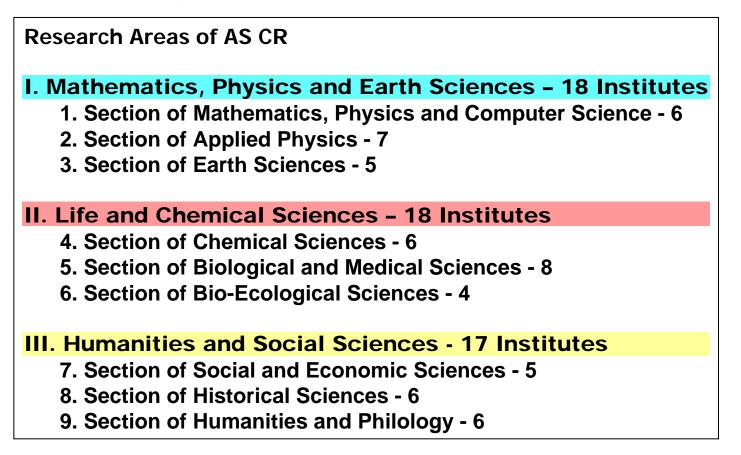


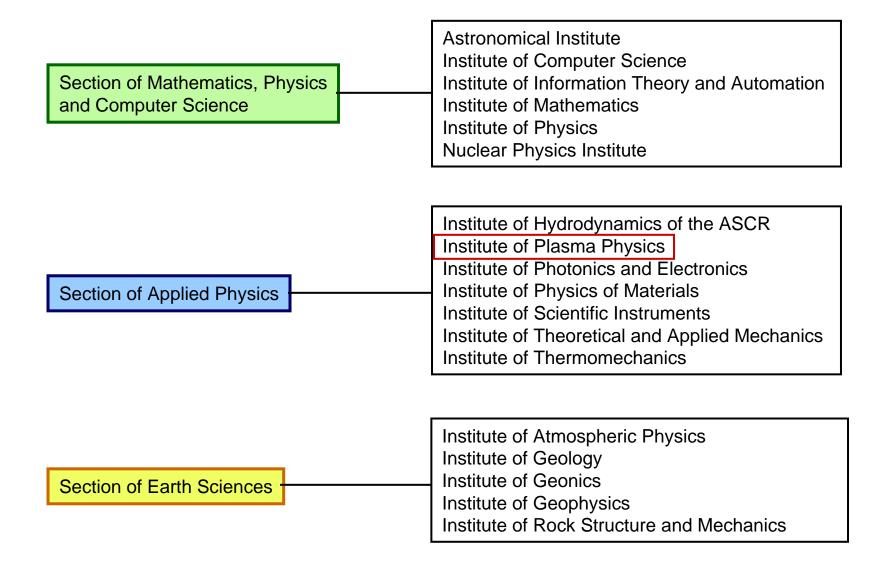
- 1784 1952 Royal Czech Society of Sciences
- 1952 1992 Czechoslovak Academy of Sciences
- 1992 Academy of Sciences of the Czech Republic AS CR

AS CR is set up as a complex of **53 public research institutions**.

It employs about **7,000 employees** more than a half of whom are researchers with university degrees.



I. Mathematics, Physics and Earth Sciences





Institute of Plasma Physics AS CR Za Slovankou 3 182 00 Prague 8 Czech Republic



1959 Institute of Vacuum Electronics 1963 Institute of Plasma Physics

Research fields:

Controlled thermonuclear fusion Exploitation of electric discharges Development of plasma sources Interaction of plasma with other matter Plasma-based waste treatment Plasma spraying processes Further topics related to plasma

Number of Personnel

Senior scientists (professors)	21
Scientists	16
Associate scientists	6
Research assistants	18
Postdoctoral fellows	6
Total	67
Graduate students	27
Technical staff	38
Administrative staff	22
Total	60

Publications (2007)

Books and monographs	3
Journal papers	56
International conferences	141
Domestic conferences	7

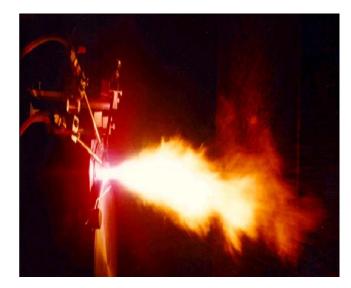
Budget (2007)

Institutional funding	62.30 MCZK	3.27 MUSD
Project grants	32.82 MCZK	1.73 MUSD
Total	95.12 MCZK	5.0 MUSD



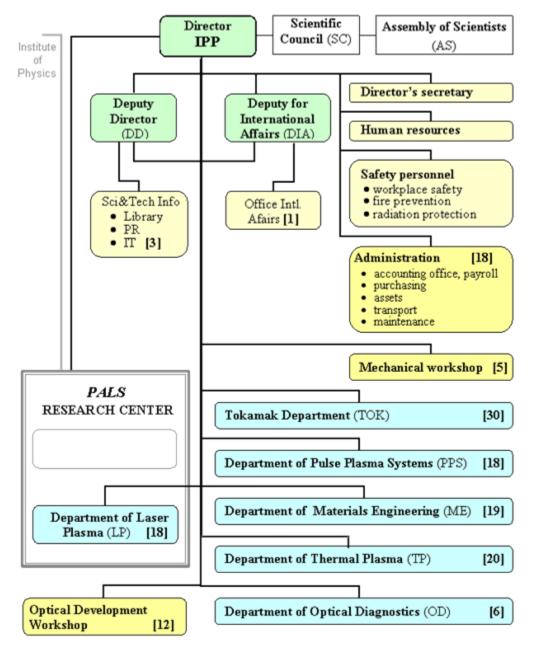
INSTITUTE OF PLASMA PHYSICS ACADEMY OF SCIENCES OF THE CZECH REPUBLIC

Organization chart of the Institute of Plasma Physics



IPP has 154 employees, the full-time employees equivalent is about 123. The Institute has six research departments,

Administration&Services department and several smaller units. The number of staff is indicated in brackets.





THERMAL PLASMA DEPARTMENT

Research Focus



Generation of thermal plasmas, properties of thermal plasma jets and fundamentals of plasma processing technologies



- Generation of thermal plasma in arc discharges at atmospheric and reduced pressures
- Theoretical and experimental investigation of electric arcs with liquid stabilization and with combined gas-liquid stabilization
- Properties of the thermal plasma, dynamics of thermal plasma jets, interaction of plasma jets with ambient atmosphere and with substances of different state of matter, primarily with solid state particles, liquid substances, and gaseous jets - Collaboration with IFS
- Theoretical modelling of arc discharges and thermal plasma flows Collaboration with IFS
- Development of methods for diagnostics of thermal plasma jets
- Study of physical processes decisive for technological applications of thermal plasmas:
 - Plasma spraying
 - Decomposition of chemically stable substances and waste treatment,
 - Pyrolysis and gasification of organic waste and biomass
 - Plasma cutting