



1. Hydrogen economy

F. Karaosmanoglu (Turkey, Istanbul, Istanbul Technical University) (IEB)

Z. Sen (Turkey, Istanbul, Istanbul Technical University) (IEB)

1-1-0-0 History of hydrogen economy

T. N. Veziroglu (USA, Miami, IAHE, UNIDO-ICHET) (HECH)

A. G. Galeev (Russia, Sergiev Posad, JSC "NIIHIMMASH") (IEB)

1-2-0-0 Safety of hydrogen energy

A. G. Galeev (Russia, Sergiev Posad, JSC "NIIHIMMASH") (IEB)

A. L. Gusev (Russia, Sarov, STC "TATA")

J. Kleperis (Latvia, Riga, University of Latvia) (IEB)

L. F. Belovodskiy (Russia, Sarov, RFNC-VNIIEF) (IEAB)

1-2-1-0 Hydrogen recombinators

A. L. Gusev (Russia, Sarov, STC "TATA")

1-2-2-0 Systems of inert gas blowing off

1-2-3-0 Ensuring of the safe operation of cryogenic systems

1-2-4-0 Safe application of hydrogen on board the vehicle

1-3-0-0 Gas analytical systems and hydrogen sensors

J. Kleperis (Latvia, Riga, University of Latvia) (IEB)

A. M. Polyansky (Russia, St. Petersburg, OOO "Electronic & Beam Technologies Ltd.") (IEB)

V. M. Aroutiounian, Academician NAS of Armenia (Armenia, Yerevan, Yerevan State University) (SEB)

J. Schoonman (Netherlands, Delft, Delft University of Technology) (IEAB)

L. I. Trakhtenberg (Russia, Moscow, N.N. Semenov Institute of Chemical Physics RAS) (IEB)

1-4-0-0 Hydrogen storage

J. Kleperis (Latvia, Riga, University of Latvia) (IEB)

O. N. Srivastava (India, Varanasi, Banaras Hindu University) (IEB)

S. M. Aldoshin, Academician RAS (Russia, Chernogolovka, IPCP RAS) (SEB)

B. P. Tarasov (Russia, Chernogolovka, IPCP RAS) (IEB)

1-4-1-0 Hydrogen storage in carbon nanosystems

O. N. Efimov (Russia, Chernogolovka, IPCP RAS) (IEB)

B. K. Gupta (India, Varanasi, Banaras Hindu University) (IEB)

A. V. Vakhroushev (Russia, Izhevsk, Institute of Applied Mechanics of Ural branch of RAS) (IEB)

1-4-2-0 Hydrogen storage in an encapsulated gaseous state: in microspheres, in foam metals, in zeolites and others

V. S. Kogan (Ukraine, Khar'kov, NSC Kharkov Institute of Physics and Technology) (IEB)

A. F. Chabak (Russia, Moscow, Academy of perspective technologies) (IEB)

E. F. Medvedev (Russia, Sarov, RFNC-VNIIEF) (IEB)

1-4-3-0 Hydrogen storage in gaseous state under pressure

A. S. Koroteev, Academician RAS (Russia, Moscow, Keldysh Research Center) (SEB)

1-4-3-1 Hydrogen storage in gaseous state in large reservoirs

1-4-3-2 Hydrogen storage in gaseous state in tank

1-4-4-0 Hydrogen storage in liquid state

A. M. Arkharov (Russia, Moscow, Bauman Moscow State Technical University) (IEB)

A. M. Domashenko (Russia, Balashikha, JSC "Cryogenmash") (IEB)

V. I. Kupriyanov (Russia, Balashikha, JSC "Cryogenmash") (IEB)

A. A. Makarov (Russia, Sergiev Posad, JSC "NIIHIMMASH") (IEB)

G. G. Shevyakov (Russia, Balashikha, JSC "Cryogenmash") (IEB)

V. S. Travkin (USA, Los Angeles, University of California) (IEB)

V. S. Kogan (Ukraine, Khar'kov, NSC Kharkov Institute of Physics and Technology) (IEB)

I. F. Kuz'menko (Russia, Balashikha, JSC "Cryogenmash") (IEAB)

A. G. Galeev (Russia, Sergiev Posad, JSC "NIIHIMMASH") (IEB)

1-4-4-1 Hydrogen storage in cryogenic liquid state in large reservoirs

1-4-4-2 Hydrogen storage in cryogenic liquid state on board the vehicles

B. A. Sokolov (Russia, Korolyov, S.P. Korolyov Energia RSC) (IEB)

1-4-5-0 Hydrogen storage in chemically-bonded state in liquid media

1-4-6-0 Hydrogen storage in solid phase state in metal hydride systems

M. D. Hampton (USA, Orlando, University of Central Florida) (DECH)

B. P. Tarasov (Russia, Chernogolovka, IPCP RAS) (IEB)

S. P. Gabuda (Russia, Novosibirsk, IIC SO RAS) (IEB)

V. L. Kozhevnikov (Russia, Ekaterinburg, ISSC Ural Branch of RAS) (IEB)

R. N. Pletnev (Russia, Ekaterinburg, ISSC Ural Branch of RAS) (IEB)

1-4-7-0 Hydrogen storage in combined systems

1-4-8-0 Hydrogen storage in adsorbed state in cryogenic adsorbents

1-4-9-0 Novel methods of hydrogen storage

1-5-0-0 Hydrogen production methods

I. F. Kuz'menko (Russia, Balashikha, JSC "Cryogenmash") (IEAB)

V. V. Lunin, Academician RAS (Russia, Moscow, M. V. Lomonosov MSU)

1-5-1-0 Radiolysis

M. A. Prelas (USA, Columbia, University of Missouri-Columbia) (IEB)

1-5-2-0 Electrolysis

1-5-3-0 Hydrogen production via thermochemical dissociation of water

1-5-4-0 Hydrogen production by ammonia decomposition

V. A. Kirillov (Russia, Novosibirsk, Boreskov Institute of Catalysis) (IEB)

1-5-5-0 Method of catalytic conversion (reforming) of gaseous and liquid hydrocarbons

1-5-6-0 Hydrogen production by partial oxidation of hydrocarbons

1-5-7-0 High-temperature process for hydrogen production

1-5-8-0 Hydrates

R. N. Pletnev (Russia, Ekaterinburg, ISSC Ural Branch of RAS) (IEB)

S. P. Gabuda (Russia, Novosibirsk, IIC SO RAS) (IEB)

1-5-9-0 Hydrogen production on board of the vehicle from organic fuels

1-5-10-0 On board hydrogen production via reaction of interaction of water and metals (aluminium, magnesium etc.)

1-5-10-1 Mechanic and electric methods of removal of oxide layer during reaction

1-5-10-2 Chemical methods of removal of oxide layer during reaction

1-5-10-3 Ultrasonic methods of removal of oxide layer during reaction

1-5-10-4 Methods of increase of specific surface of metals

1-5-10-5 Thermal and pressure methods of intensification of hydrogen production

1-5-10-6 Devices for on board hydrogen production via reaction of interaction of water and metals

1-5-10-7 Devices for hydrogen production via reaction of interaction of water and metals for domestic applications

1-5-10-8 Devices for hydrogen production via reaction of interaction of water and metals for commercial applications

1-5-10-9 Physico-mathematical model of processes of hydrogen production

1-5-10-10 Novel lines of development of method for on-board application

1-5-11-0 Hydrogen production from deep-sea hydrogen sulphide

I. M. Neklyudov (Ukraine, Khar'kov, Khar'kov Physical Technical Institute) (IEB)

N. A. Azarenkov (Ukraine, Khar'kov, Khar'kov Physical Technical Institute) (IEB)

V.I.Tkachenko (Ukraine, Khar'kov, Khar'kov Physical Technical Institute) (IEB)

1-5-11-0 Novel hydrogen production methods

1-6-0-0 Hydrogen transport

A.G.Galeev (Russia, Sergiev Posad, JSC "NIIHIMMASH") (IEB)

1-6-1-0 Transport of liquid cryogenic products by pipelines

A.M.Domashenko (Russia, Balashikha, JSC "Cryogenmash") (IEB)

1-6-2-0 Cooling of cryogenic system mains

1-6-3-0 Transient processes in cryogenic systems

1-7-0-0 Fuel cells

B.A.Sokolov (Russia, Korolyov, S.P.Korolyov Energia RSC) (IEB)

Yu.N.Shalimov (Russia, Voronezh, VSTU) (IEB)

V.P.Pakhomov (Russia, Moscow, RRC "Kurchatov Institute") (IEB)

1-7-1-0 Research and production of fuel cells

1-7-1-1 Membranes for fuel cells

1-7-1-2 Computer simulation of fuel cell operation

1-7-2-0 Fuel cells application

1-7-2-1 Power supply on fuel cells with methanol conversion for portable devices

1-7-3-0 Fuel cells with hydrogenous fuel pre-processing

1-8-0-0 Structural materials

P.G.Berezhko (Russia, Sarov, RFNC-VNIIEF) (IEB)

A.M.Polyansky (Russia, S.-Petersburg, OOO "Electronic & Beam Technologies Ltd.") (IEB)

V.M.Chertov (Russia, Moscow) (IEB)

Yu.N.Shalimov (Russia, Voronezh, VSTU) (IEB)

P.Saint-Gregoire (France, Université de Toulon et du Var) (DECH)

F.A.Lewis (Great Britain, Belfast, The Queen's University of Belfast) (SEB)

A.T.Ponomarenko (Russia, Moscow, Enikolopov Institut of Synthetic Polymer Materials of RAS) (IEAB)

L.V.Spivak (Russia, Perm', Perm' State University) (IEAB)

M.V.Gol'tsova (Ukraine, Donetsk, Donetsk STU) (IEAB)

N.M.Vlasov (Russia, Podol'sk, SRI SIA "Luch") (IEB)

I.I.Fedik (Russia, Podol'sk, SRI SIA "Luch") (IEB)

1-8-1-0 Hydrogen in metals and alloys

V.A.Gol'tsov (Ukraine, Donetsk, DonSTU) (IEB)

L.F.Gol'tsova (Ukraine, Donetsk, DonSTU) (IEB)

1-8-2-0 Hydrogen degradation

1-8-3-0 Structural materials hydrogenation systems

1-8-4-0 Static and dynamic strength of structural materials

N.N.Gerdyukov (Russia, Sarov, Institute of Experimental Gasdynamics and Physics of Explosion RFNC-VNIIEF) (IEB)

1-8-5-0 Gasars. Application of gasars in marine and air fleet, motor-car construction

1-8-6-0 Electrical furnaces for thermovacuum processes

E.N.Marmer (Moscow, VNIIEFO) (IEB)

1-8-7-0 New structural materials for renewable energy structures

1-9-0-0 Synthesis-gas production methods

A.Ya.Stolyarevskiy (Russia, Moscow, RRC "Kurchatov Institute") (IEB)

1-9-1-0 Adiabatic conversion of the natural gas

1-10-0-0 Hydrogen fuel vehicles and engines

T.Gaertig (Germany, Berlin) (IEB)

A.L.Dmitriev (Russia, S.-Petersburg, RSC "Applied Chemistry") (IEB)

A.M.Domashenko (Russia, Balashikha, JSC "Cryogenmash") (IEB)

B.A.Sokolov (Russia, Korolyov, S.P.Korolyov Energia RSC) (IEB)

A.Yu.Ramenskiy (Russia, Moscow, Audit-Premier) (IEAB)

V.S.Sokolov (Russia, S.Petersburg) (IEAB)

1-11-0-0 Hydrogen filling stations

1-12-0-0 Hydrogen for providing buildings, structures and houses with energy. Micro hydrogen power plants based on fuel cells



2. Thermodynamic analysis in renewable energy

V. A. Khusnutdinov (Russia, Moscow, RAO UES of Russia) (IEB)

2-1-0-0 Thermodynamic analysis of basic energy generation processes in alternative energy

2-2-0-0 Exergetic analysis of basic energy generation processes in alternative energy



3. Atomic energy

Yu. A. Trutnev, Academician RAS (Russia, Sarov, RFNC-VNIIEF) (HECH)

A.Ya.Stolyarevskiy (Russia, Moscow, RRC "Kurchatov Institute") (IEB)

A.V.Ivkin (Russia, Sarov, RFNC-VNIIEF) (IEAB)

A.G.Chudin (Russia, Moscow, Federal Agency for Nuclear Energy) (IEAB)

V. A. Afanas'ev (Russia, Sarov, RFNC-VNIIEF) (IEB)

M. A. Prelas (USA, Columbia, University of Missouri) (IEB)

3-1-0-0 Atomic-hydrogen energy

N.N.Ponomaryov-Stepnoy, Academician RAS (Russia, Moscow, RRC "Kurchatov Institute") (SEB)

A.Ya.Stolyarevskiy (Russia, Moscow, RRC "Kurchatov Institute") (IEB)

V.N.Fateev (Russia, Moscow, RRC "Kurchatov Institute") (IEB)

A.L.Gusev (Russia, Sarov, STC "TATA")

3-1-1-0 History of atomic-hydrogen energy

N.N.Ponomaryov-Stepnoy, Academician RAS (Russia, Moscow, RRC "Kurchatov Institute") (SEB)

A.Ya.Stolyarevskiy (Russia, Moscow, RRC "Kurchatov Institute") (IEB)

A.L.Gusev (Russia, Sarov, STC "TATA")

3-1-2-0 High-temperature gas reactors (HTGR) for hydrogen production via high-temperature processes

3-1-3-0 Fast reactors with sodium cooling (SC) to produce mid-temperature heat, and synthesis gas and hydrogen

3-1-4-0 Fast reactors with lead cooling as reactors of future generation to produce high-temperature heat

G.L.Khorasanov (Obninsk, SSC of the RF – Institute for Physics and Power Engineering Named After A.I.Leyppunsky) (IEB)

3-2-0-0 Atomic energy for vehicles

M. A. Kazaryan (Russia, Moscow, P.N.Lebedev FIAN) (IEB)

I.V. Shamanin (Russia, Tomsk, Tomsk Polytechnical University) (IEB)

3-2-1-0 Radionuclide heat sources

3-2-2-0 Radionuclide thermoelectric generators

3-2-3-0 Thermo- and radiation-stimulated phase transformation in alloys incorporated (carbides, nitrides, nitrides-hydrides, carbohydrides and hydrides of transition metals, high-temperature, super-conducting materials, intermetallic composition)



4. Solar energy

A.Steinfield (Switzerland, Zurich, ETH-Swiss Federal Institute) (IEB)

G.I.Isakov (Azerbaijan, Baku, Institute of Physics of NAS of Azerbaijan) (DECH)

I.G.Khidirov (Uzbekistan, Tashkent, Institute of Nuclear Physics of NAS of Uzbekistan) (IEB)

S.Geruny (Armenia, Yerevan, Yerevan State University) (IEB)

S.M.Raza (Pakistan, Quetta, University Of Balochistan) (IEB)

S.Z.Ilyas (Pakistan, Quetta, University Of Balochistan) (IEB)

A.M.Pendjiev (Turkmenistan, Ashkhabat-32, Turkmenian polytechnic institute) (IEB)

V. F. Gremenok (Belorussia, Minsk, Joined Institute of Solid State and Semi-conductor Physics) (IEAB)

4-1-0-0 History of solar energy

4-2-0-0 Solar-hydrogen energy

4-2-1-0 Materials for solar-hydrogen energy

4-3-0-0 Solar power plants

4-3-1-0 Silicone solar thermal electric plants

4-3-2-0 Space solar stations

4-3-3-0 Photoelectric cell

4-3-4-0 Photovoltaic effect in semiconductor structures. Photoelectric modules

4-4-0-0 Ground solar stations

4-4-1-0 Solar collectors

4-5-0-0 Solar cities

4-5-1-0 Solar buildings

4-5-2-0 Solar refrigerators

4-5-3-0 Solar water-lifting systems

4-5-4-0 Solar energy units



4-6-0-0 Solar transport
4-7-0-0 Solar radiation concentrators



5. Wind energy

I.Z.Boguslavskiy (Russia, Moscow, DBREPE RAS) (IEB)

5-1-0-0 History of wind energy
5-2-0-0 Hydrogen-wind energy
5-3-0-0 Electric generators for wind energy
5-4-0-0 Wind energy plants
5-5-0-0 Wind-solar energy plants



6. Tide energy and sea tide energy

6-1-0-0 History of energy of tides
6-2-0-0 Sea waves energy
6-3-0-0 Sea tide energy



7. Geothermal energy

7-1-0-0 History of geothermal energy
7-2-0-0 Basic research into geothermal energy
7-3-0-0 Problems of geothermal energy assimilation
7-4-0-0 Role of modeling and monitoring in geothermal energy assimilation. Appraisal of geothermal resources
7-5-0-0 Geothermal plants
7-5-1-0 Geothermal power plants
7-5-2-0 Geothermal heat plants
7-6-0-0 Efficiency and reliability of geothermal heat and power plants. Major ways to improve the efficiency of geothermal heat and power plants
7-7-0-0 Geothermal resources of world countries and prospects of their development



8. Explosion energy

V.E.Fortov, Academician RAS (Russia, Moscow, Institute of thermal physics of extremal state RAS) (SEB)

A.L.Mikhailov (Russia, Sarov, Institute of Experimental Gasdynamics and Physics of Explosion RFNC-VNIIEF) (IEB)

N.N.Gedyukov (Russia, Sarov, Institute of Experimental Gasdynamics and Physics of Explosion RFNC-VNIIEF) (IEB)

A.A.Sterzer (Russia, Novosibirsk, MATEM Co. Ltd) (IEB)

V.N.German (Russia, Sarov, Institute of Experimental Gasdynamics and Physics of Explosion RFNC-VNIIEF) (IEB)

8-1-0-0 Explosion technologies
8-2-0-0 Computer simulation of problems for explosion energy
8-1-1-0 Setting up problems for explosion energy
8-1-2-0 Mobile Lagrangian and Euler grids
8-3-0-0 Explosion deuterium energy
8-4-0-0 Explosion energy for syntheses of new materials
8-4-1-0 Materials synthesis and sticking by the explosion
8-4-2-0 Shock-wave sticking
8-4-3-0 Computer modelling of processes of material shock-wave sticking
8-5-0-0 Explosives
8-6-0-0 Blasting chambers
A.A.Sterzer (Russia, Novosibirsk, MATEM Co. Ltd) (IEB)
8-7-0-0 Extremal state of matter. Detonation. Shock waves
8-8-0-0 Energy materials and physics of detonation
8-9-0-0 Equations of the state and phase transition



9. Energy of biomass

S.A.Markov (USA, Greencastle, DePauw University) (IEB)

9-1-0-0 Biogas plants
9-2-0-0 Thermochemical gas generators



10. Small and micro hydro-power plants

S.Shatvoryan (Armenia, Yerevan, Energy Strategy Center) (IEB)

10-1-0-0 Equipment for small and micro hydro-power plants (HPP)

10-2-0-0 Derivation micro hydro-power plants



11. Carbon nanostructures

A.M.Lipmanov, Academician RAS (Russia, Izhevsk, Institute of Applied Mechanics UB RAS) (IEB)

Yu.M.Shul'ga (Russia, Chernogolovka, JSC "Cryogenmash") (IEB)

V.I.Kodolov (Russia, Izhevsk, BRHE Centre of Chemical Physics and Mesoscopy) (IEAB)

Yu.S.Nechaev (Russia, Moscow, Bardin Research Institute of the Ferrous Metals Industry) (IEAB)

B.P.Tarasov (Chernogolovka, IPCP RAS) (IEAB)

Yu.D.Tretiakov, Academician RAS (Russia, Moscow, FMS MSU) (SEB)

11-1-0-0 Nanosystems: synthesis, properties, and application

E.A.Goodilin, Member Corresponding RAS (Russia, Moscow, FMS MSU) (SEB)

11-2-0-0 Fullerene structures and carbon nanomaterials for heat insulation

11-3-0-0 Fullerene structures and carbon nanomaterials for hydrogen sensors

M.V.Vorobiova (Russia, Moscow, GIREDMET) (IEAB)

V.M.Aroutiounian, Academician NAS of Armenia (Armenia, Yerevan, Yerevan State University) (SEB)

11-4-0-0 Computer simulation of synthesis of carbon nano-materials with specified properties

11-5-0-0 Carbon nanostructures for vehicles



12. Catalysis for renewable energy

Z.R.Ismagilov (Russia, Novosibirsk, Boreskov Institute of Catalysis) (IEB)

S.M.Aldoshin, Academician RAS (Russia, Chernogolovka, IPCP RAS) (SEB)

V.N.Parmon, Academician RAS (Russia, Novosibirsk, Boreskov Institute of Catalysis of SD RAS) (SEB)

V.A.Kirillov (Russia, Novosibirsk, Boreskov Institute of Catalysis of SD RAS) (IEB)

O.N.Efimov (Russia, Chernogolovka, IPCP RAS) (IEB)

12-1-0-0 Catalytic methods for synthesis of alternative fuel

12-2-0-0 Catalysis in combined schemes «energy generation and production of useful products from natural gas»

12-3-0-0 Catalysis in generation of working fluid in gas turbines as an effective alternative flare generation method

12-4-0-0 Catalysis of fuel cells

12-5-0-0 Catalysis in processes of production of synthesis gas and hydrogen

12-6-0-0 Catalytic methods of hydrogen treatment

12-7-0-0 Catalysis in treating of power reactor waste gases

12-8-0-0 Catalysis in process water treatment systems

12-9-0-0 Photocatalytic and electrocatalytic methods for hydrogen production

12-10-0-0 Development and study of material properties to form catalytic layers in fuel cells

12-11-0-0 On mechanism of catalytic action. Effect of metal nature and degree of oxidation thereof on catalytic activity

12-12-0-0 Nanocomposites for application as catalysts. Effect of dimension factor on catalytic activity

12-13-0-0 Alternative catalysts with no platinum

12-14-0-0 Problems of catalyst poisoning

12-15-0-0 Catalyst carriers: design, synthesis, and properties

12-16-0-0 Catalytic layers for fuel cells in planar design

12-17-0-0 Sol-gel process for production of catalysts and catalyst carriers





13. Thermogradient energy

V. A. Khusnutdinov (Russia, Moscow, RAO UES of Russia) (IEB)



14. Ice energy

- 14-1-0-0 Application of ice in energy. Glacial power stations
 - 14-2-0-0 Application of cold of permafrost for thermostatic control of domestic and process structures
 - 14-3-0-0 Physical and chemical properties of ice
 - 14-4-0-0 Thermal properties of ice
 - 14-5-0-0 Thermodynamic basis for production and application of ice
 - 14-6-0-0 Equipment for ice testing
 - 14-7-0-0 Facilities for ice production
 - 14-8-0-0 Methods and machinery for ice emergent break up for safety depth devices and over-land vehicles undergoing disaster
 - 14-9-0-0 Binary ice in science and technique
- A. L. Gusev** (Russia, Sarov, STC "TATA")
- 14-10-0-0 Application of ice for construction of engineering and technical, and architecture structures
 - 14-11-0-0 Ice dynamics and strength. Embrittlement dynamics. Experimental methods of ice breaking up dynamic mechanics
 - 14-12-0-0 Numerical and combined numerical and experimental methods of ice breaking up dynamic mechanics
 - 14-13-0-0 Techniques for removing ice from water reservoirs
 - 14-14-0-0 Cold storage and application
 - 14-15-0-0 Transport of icebergs and production of fresh water



15. Thermonuclear energy

V. N. Lobanov (Russia, Sarov, RFNC-VNIIEF) (IEB)

- 15-1-0-0 Investigations on the controlled thermonuclear fusion
 - 15-2-0-0 X-ray thermonuclear fusion
 - 15-3-0-0 Beam fusion
 - 15-4-0-0 Inertial fusion
 - 15-5-0-0 Isotope effect
 - 15-6-0-0 Cryogenic tritium targets
 - 15-7-0-0 High-pressure targets designed for research of nuon catalysis processes in nuclear fusion
 - 15-8-0-0 International project of thermonuclear fusion reactor, ITER
 - 15-9-0-0 Radiological protection and nuclear security
 - 15-10-0-0 Production of radioisotopes and application
- M. A. Kazaryan** (Russia, Moscow, FIAN Lebedev Institute of Physics of RAS) (IEB)
- 15-11-0-0 Fuel cycle and ecology
 - 15-12-0-0 Design, construction and maintenance of nuclear research and power reactors
 - 15-13-0-0 Production of components and materials required for application in nuclear reactors and fuel cycles thereof
 - 15-14-0-0 TOKAMAK systems
 - 15-15-0-0 Auxiliary magnetocumulative systems



16. Cryogenic and pneumatic vehicles

A. L. Gusev (Russia, Sarov, STC "TATA")

- 16-1-0-0 Cryogenic nitrogen transport
- 16-2-0-0 Inert gas-based cryogenic vehicles for hazardous structures: fire engines, air port auxiliary vehicles, fuel and lubricant storage, vehicles in dangerously explosive chemical production

16-3-0-0 Pneumatic vehicles



17. Basic problems of energy and renewable energy

- 17-1-0-0 Electric energy storage
- 17-2-0-0 Superconductive materials. Superconductivity. Superconductivity of energy
- 17-3-0-0 New cycles and schemes for thermotransformers
- 17-4-0-0 Problems of megapolise illumination



18. Application of helium and special materials in vehicles

Yu. A. Ryjov, Academician RAS (Russia, Moscow, International University of Engineering) (SEB)

- 18-1-0-0 Airships to transfer large-sized cargoes
- 18-2-0-0 Airships to control states of emergency in megapolises: car inspection, fire safety, terrorism combat, technical and ecological state control of industrial buildings and structures. Energy control (heat leak control in buildings on a city's scale)
- 18-3-0-0 Fire fighting airships, counteracting, and police airships



19. Juvenile hydrogen in geotectonics and geochemistry processes

S. V. Digonskiy (Russia, Ekaterinburg, FGUP "Urangologorazvedka") (IEB)

V. L. Syvorotkin (Russia, Moscow, M.V. Lomonosov Moscow state university) (IEB)

- 19-1-0-0 Role of hydrogen in chemical composition of the universe
- 19-2-0-0 Diving forces in the evolution of Earth and planets
- 19-3-0-0 Hydrogen in the Earth's core
- 19-4-0-0 Geology and geochemistry of natural gases in deep fault areas
- 19-5-0-0 Transport of juvenal hydrogen through the Earth stratum and formation of electrically charged zones
- 19-6-0-0 Natural synthesis of carbon-based substances
- 19-7-0-0 Deep degasifying of the Earth, global disasters and anomalous phenomena



20. On-board energy accumulators

20-1-0-0 Thermal energy accumulators

A. L. Gusev (Russia, Sarov, STC "TATA")

- 20-1-1-0 Temperature above 273 K
- 20-1-2-0 Temperature below 273 K
- 20-1-3-0 Temperature below 77 K

20-2-0-0 Flywheel energy accumulators

20-3-0-0 Electrical energy accumulators

20-4-0-0 Spring energy accumulators

20-5-0-0 Compressed-air energy accumulators

20-6-0-0 Chemical energy accumulators



21. Legislative basis

P. B. Shelishch (Russia, Moscow, RF State Duma, President of National Association of Hydrogen Energy) (IEAB)

- 21-1-0-0 Legislation basis for renewable energy in Russia
- 21-2-0-0 Legislation assurance for innovation development of hydrogen energy
- 21-3-0-0 Legislation basis for renewable energy in CIS
- 21-4-0-0 Legislation basis for ecology





22. Economical aspects

- 22-1-0-0 Investment attractiveness of various countries and companies in renewable energy
- 22-2-0-0 Resources of conventional energy sources in exporting countries and world resources
- 22-3-0-0 National scientific and technological programmes of the development of hydrogen economy
- 22-4-0-0 Economical analysis in renewable energy
- V. A. Khusnutdinov** (Russia, Moscow, RAO UES of Russia) (IEB)
- 22-5-0-0 Business-planning in renewable energy



23. Energy and ecology

- O. L. Figovsky** (Israel, Migdal Ha'Emek, Israel Research Center Polymate) (IEB)
- M. V. Vorobiova** (Russia, Moscow, GIREDMET) (IEB)
- 23-1-0-0 Greenhouse gas effect
- 23-2-0-0 Ecological problems of industrial megapolises
- 23-3-0-0 Ecology of air atmosphere and space
- 23-4-0-0 Ecology of water resources
- 23-5-0-0 Problems of unhealthy atmospheric emissions by heat-electric generating plants
- 23-6-0-0 Problems of ground pollution by energy carriers
- 23-7-0-0 Ecological tourism and ecological resorts
- 23-8-0-0 Problems of factory and domestic waste utilization



24. Energy efficiency methods and facilities for aggressive gas mixture separation and purification

- A. L. Gusev** (Russia, Sarov, STC "TATA")
- M. A. Kazaryan** (Russia, Moscow, P.N. Lebedev FIAN) (IEB)
- A. A. Bobrova** (Russia, Sarov, RFNC-VNIIEF)



26. Education and scientific research centres

- L. A. Il'kaeva** (Russia, Sarov, RFNC-VNIIEF) (IEAB)
- B. F. Reutov** (Russia, Moscow, Federal Agency for Education and Sciences of RF) (IEB)
- A. V. Chuvikovskiy** (Russia, Sarov, RFNC-VNIIEF) (IEB)
- Yu. P. Shcherbak** (Russia, Sarov, Sarov Physicotechnical Institute) (IEB)
- J.-P. Contzen** (Belgium, von Karman Institute for Fluid Dynamics) (IEB)
- 26-1-0-0 Educational programmes in hydrogen economy
- 26-2-0-0 Hydrogen trading estates and science and research cities
- 26-3-0-0 Young people in alternative energy and ecology science and technology



27. Information

- A. I. Salikov** (Russia, Moscow, CNIIATOMINFORM) (IEAB)
- E. M. Tararaeva** (Russia, Moscow, CNIIATOMINFORM) (IEAB)
- E. A. Goodilin**, Member Corresponding RAS (Russia, Moscow, FMS MSU) (SEB)
- T. N. Kondirina** (Russia, Sarov, STC "TATA")
- 27-1-0-0 Review of periodicals
- 27-2-0-0 Review of leading internet-resources
- 27-3-0-0 Prominent scientists' biographies
- 27-4-0-0 Scientific funds and scientific projects
- 27-5-0-0 International scientific conferences
- 27-6-0-0 Advertising matters of investment companies and manufacturers
- 27-7-0-0 Review of new scientific books
- 27-8-0-0 Patents
- 27-9-0-0 Encyclopedia of renewable energy. Terms and definitions
- 27-10-0-0 Opinions, letters in publishing office, short articles
- 27-11-0-0 Messages of members of Scientific editorial board

Аббревиатуры



- PHC — Редакционный научный совет
- MPK — Международный редакционный комитет
- МНКСП — Международный научно-консультативный совет редакции
- ЭС — Экспертный совет
- МСП — Международный совет рецензентов

Abbreviation



- SEB — Scientific Editorial Board
- IEB — International Editorial Board
- IEAB — International Editorial Advisory Board
- EB — Experts Board
- IRB — International Reviewers Board



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