BELOV VLADIMIR DMITRIEVICH

(on the 70th anniversary of birth)

On January 16, 2019, the 70th anniversary of the famous foundry scientist, doctor Technical Sciences, Professor, Honored Worker of Higher School of Russia Russian Federation, academician of the Russian Academy of Natural Sciences (RANS), Corresponding Member of the Academy of Quality Problems of the Russian Federation, Head of the Department "Foundry technology and artistic processing of materials" (LTIHOM) NITU "MISIS" **Vladimir Dmitrievich Belov.**

Russian Association of Foundrymen, team of the department "Foundry technology and artistic processing of materials", editorial Council of the magazine "Foundry Russia", colleagues and friends congratulate Vladimir Dmitriyevich with an anniversary, wish good health, family well-being, further creative success in teaching, research and social activities.

Contents of the journal No. 1- 2019

The state of production of aluminum casting in Russia is considered. Shortcomings were noted and a concept was proposed that provides for the creation of new production facilities and centers of competence that will facilitate the export of cast components and the import substitution of aluminum castings, as well as the training of qualified personnel for the foundry industry.

Keywords: concept, competence centers, import substitution, export.

2. **Valeriy Bukhtienko.** TEBOWA NUR: production of machines and automated systems for high-pressure casting in the Russian Federation

The article presents the experience of LLC «TEBOWA NUR» in the design and production of high-pressure casting machines. In addition to the production of new equipment, the company modernizes and overhauls the LPD machines of any manufacturers and sizes, morally obsolete and spent their resource. Provides customers with a service program for equipment maintenance.

Keywords: die casting, pressing mechanism, mold.

3. **E.O. Sinyagin, A.E. Yampolskaya.** Innovation and engineering in the foundry industry company «OLDENG», Russia

The article focuses on the issues of solving production objectives and tasks by selecting proper machines and auxiliary equipment. It reveals and studies core requirements to machines and equipment analyzing aluminium die-casting industry.

Keywords: die-casting, mould and die; gating system, automation.

4. **O.I. Neglinskiy, J. Mateo-Larrauri, (Loramendi).** Development and perspectives of the technology of production of sand cores with inorganic binders

A review of the core production technology with inorganic sand binders is given. The improvements that have been achieved in the development process allow a serial use of the technology. The prospect of further application — mass production of thin-walled cast parts with increased requirements for dimensional accuracy.

Keywords: aluminum alloys casting, casting cores, inorganic binder, warm box core-making tooling.

5. **A.B. Semenov, B.I. Semenov.** Modern requirements and possibilities of preparing the structure of specialized blanks of Al-alloys, suitable for processing Thixo- and MIM methods

In the published material discussed the issues of state scientific development and practical application of modern methods of manufacture of aluminium castings by die casting of alloys in the solid-liquid state.

Keywords: thixolite, re-casting, MIM-technology.

LETTER TO THE EDITORS

S.A. Tyutyukov, A.V. Andreev, M.N. Kuznetsov, N.I. Maurin, A.V. Gavrilyuk. To the question of the possibility of improving the mechanical properties of metal curves from steel 12DNF2FL through correction of the technological process.

O f letter in edition S.A. Tyutyukov, A.V. Andreev, M.N. Ruznetsov, N.I. Maurin, A.V. Gavrilyuk, «About of the possibility to improve mechanical properties of casting’s metal of foundry’s steel 12CuNi2V due to correction technological process».

Keywords: technology of melting, arc steelmaking furnace, steel 12CuNi2V, melting performance.