1. **Dibrov I. Press conference dedicated to the International machine-tool building exhibition EMO MILANO 2015.**

2. **Mysik R.K., Brusnitsyn S.V., SulitsinA.V., Sinitsyna M.A., Bashmakov V.V., Ivkin M.O.** Investigation of complex alloyed cast brass structureand properties.

Inthis paper the results of complex alloyed cast brassCuZn23Al6Fe3Mn2 centrifugal castings structure andmechanical properties nvestigation are presented. It isshown that the structure of alloy consists of β-phaseand evenly distributed particles of γFe-phase. This structurewarrants of mechanical properties homogeneityin the casting cross section and considerable reserve ofstrength and plastic properties level of alloy.

Key words: complex alloyed brass, centrifugal casting, structure, phase, mechanical properties.

3. **Belov V., Fadeev A., Pavlinich C., Kachalov A., GamazinaM., Alikin P.** The influence of casting mold material onthe quality of castings made of titan alloys.

Some aspects of influence of material of casting formare considered on quality of the cast details. The resultsof work on manufacturing of the titanic founding castingin graphite forms in the field of centrifugal forcesare presented.

Key words: casting, shape, material, titanium, graphite,parts, quality.

4. **Mamin V., Esenbekov V.** Modular designing of the foundryequipment. A presented consnructive schemes of foundrymacshines and units of automatic transfer lines.

The most widespread are the units are carrying out rectilinermovement. The drive in such designs is carried out from phnevmo or hydrocylinders. The following on applicabilitymachines which woking bodies carry out circular are movements.A drive in such units, basically, electromechanical.Most machines with a horizontal axis of rotation. Are presentedvarious schemes such machines of rotation.

Key words: drive, horizontal axis of rotation, phnevmocylinder,hydrocylinder.

5. **VachenkoA., JokhinA.** Mathematic alsimulationasthetool of the technologist-founder on some examples.

Inarticle problems of mathematical simulation, on wellknownexamples and examples of various foundry technologiesare considered. Recommendations of how toreduce these problems are given and how to raise efficiencyof simulation.

Key words: mathematical simulation, result of interpretation, MAGMASOFT, accuracy of alculation, CAE, CAD.

6. **Monastyrskiy V., Ershov M.** Simulation model of pipingand macro porosity formation.

A finite-element model ofthe piping and shrinkage macro porosity formation takinginto account the capillarity and dendrites skeletoninfluence on feeding of the mushy zone were designed.
A software module for PoligonSoft CAE system has beendeveloped. The software module is available in test modein PoligonSoft CAE system 13.4 and above.

Key words: porosity, shrinkage, casting cavity, capillaryeffect, casting defects.

7. **Kuznetsov I., Khazan G.** Research of the effect of thecomposition of the sand on the properties of cold-basicsmixed with furan resin.

According to the results of theexperiment determined the effect of grain size characteristicsof the sand on the properties of cold-settingsand with different content of furan resin and hardener,as well as the algorithm of stabilization propertiesof the mixture.

Key words: the sand, cold-setting sand, furan resin.