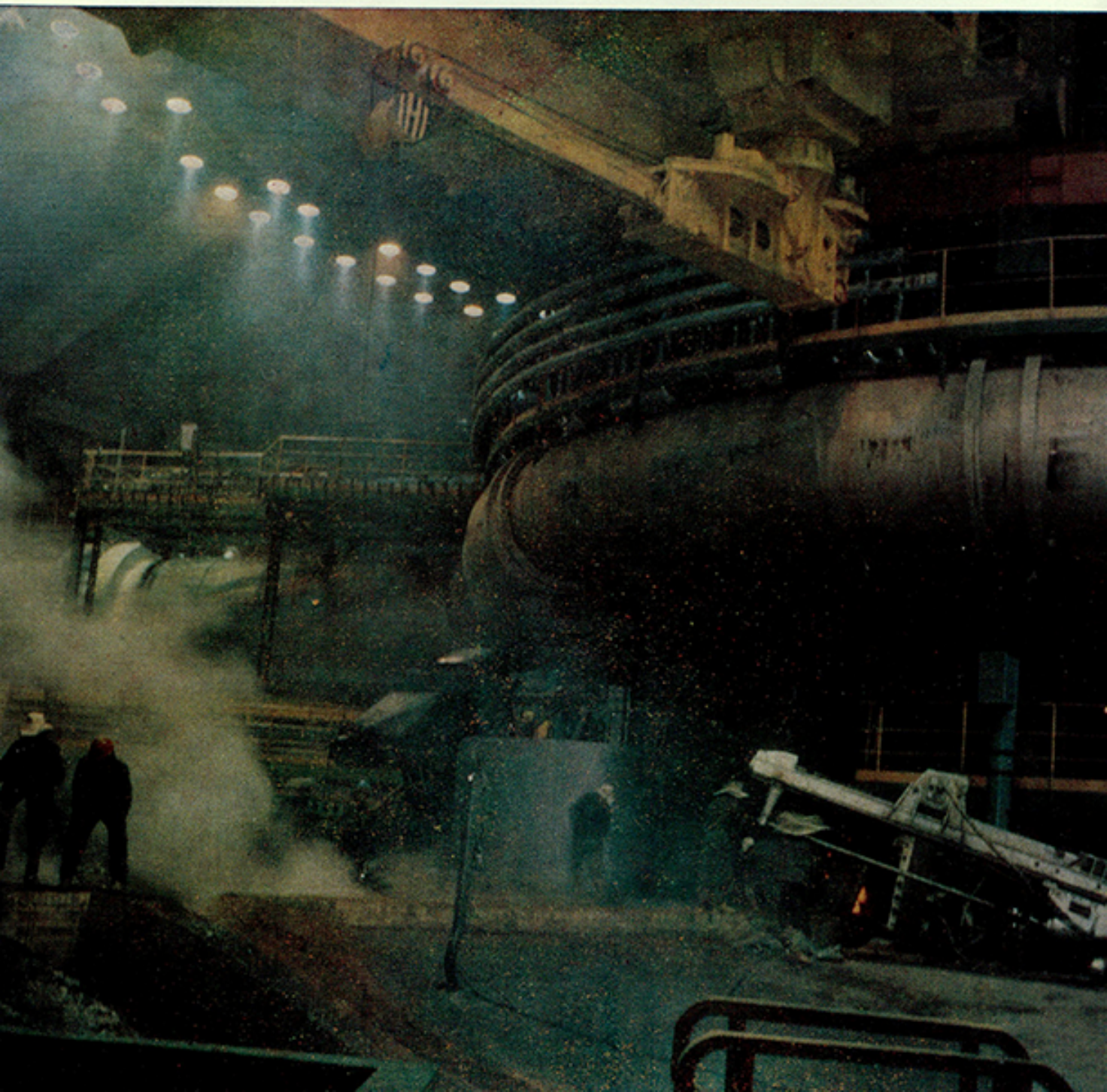




POLISH TECHNICAL REVIEW



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Production of sealed radioactive sources

All the handling, reloading, storage, remote welding operations and measurements connected with the production of closed sources of gamma rays for industry, medicine, etc call for the observance of exacting labour safety regulations. These requirements are met by the six-chamber line Type KZ2 produced by the POLON Factory in Poznań. The line is discussed in detail in article on p.2.

New technology of thin films of $A^{II}B^{VI}$ semiconducting compounds

Among the semiconducting materials, the semiconducting compounds $A^{II}B^{VI}$ are distinguished by specific properties and open large prospects for practical applications. Research work conducted in Poland for over 15 years have resulted in the elaboration of a modern vacuum technology of thin films of the $A^{II}B^{VI}$ compounds, used in serial production. The article on p. 13 discusses this technology together with two different types of Hall probes designed on its basis.

Submerged arc welding with electrode preheating

The article on p. 6 presents the process of automatic submerged arc welding with initial electrode heating up by means of an additional current source connected to the sliding contacts of welding current and to additional contacts provided on the automat's head. The advantages of this method are the 40 to 60 per cent higher output of electrode melting output compared with the traditional method, the possibility of making a weld joint with a smaller number of layers at the same welding parameters, etc.

Photos in the issue: E. Gajewska-Ignatowicz

Cover photo: Blast furnace in the KATOWICE steelworks

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