



JAN ARTHUR AUNE

11th august 1943

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Summary

Extensive and varied experience in all aspects of pyrometallurgical processing which includes an electric smelting step.

Plant operational experience covers all traditional electric smelting applications such as the ferroalloy processes: FeSi, SiMet, FeMn, SiMn, FeCr as well as Pig Iron, Cu/Pb/Ni-mattes, Sn, Slag-cleaning and various special applications.

Process design & electric furnace dimensioning including basic design improvements.

Practical working knowledge of most associated technologies down- and upstream.

Familiar with oxy-fuel and plasma processes with corresponding reactor technologies.

In-depth knowledge of reactor Power Supply-, Refractory/Freeze Lining- and Cooling-system designs.

Continuous and extensive experience with working internationally (globally), both alone and as part of a team.

Special Qualifications

- Process design & electric furnace dimensioning
- Plant commissioning & electric furnace start-up
- Operational diagnostics, trouble-shooting & corrective procedures
- Audits of plant operations and expansion/improvement projects
- Personnel training
- Ferroalloy smelting processes and equipment
- Slag resistance smelting processes and equipment
- Non-ferrous metallurgy. Sulphide ores and minerals smelting.
- Technical marketing of processing concepts and electric furnace plants & equipment.
- Electric smelters, basic design improvements.
- Development of new electric smelting technology processing concepts (process & reactor)

Academic Exams

1963-1967	M.Sc. Process Metallurgy Norwegian Institute of Technology (NTH), Trondheim, Norway.
1962-1963	Student Trainee Christiania Spigerverk, Steelplant & Foundry

Professional Experience

- 2010 - Elkem AS - Corporate Consulting Metallurgist (part time)
Technology Advisor with the Senior Vice President, Technology & Projects. Position was created when retirement age was reached
- 2006 – 2010 Elkem AS - Corporate Chief Metallurgist
Staff position with the Senior VP Technology & Ind. Projects, who has the responsibility to monitor, support and control ind. Scale technology projects.
- 1999 – 2006 Elkem AS - Consulting Metallurgist (Elkem Senior Specialist)
Development and engineering of a “New generation” of processing concepts for Elkem’s business areas.
- 1991 – 1999 Elkem AS - Consulting Metallurgist (Elkem Senior Specialist)
General technical specialist work including plans for rehabilitation of a nickel matte smelter in Russia. Marketing of electric furnace technology for mineral wool production. “Difficult” ferroalloy plant commissionings and technical service contracts in Iran and Egypt.
- 1984 – 1991 Elkem AS - Chief Metallurgist (Overingeniør)
Process/equipment design and development including marketing. Industrial scale pilot testing, plant commissioning and operation.
- 1978 – 1984 Elkem AS - Senior Metallurgist
Plant operation, mainly trouble-shooting and optimization. Process and equipment R&D. Project work ranging from process calculations and basic equipment design to marketing.
- 1971 – 1978 Elkem AS - Metallurgist
Electric furnace commissioning, plant operation, technical work on a large number of projects.
- 1967 – 1971 Norwegian Institute of Technology (NTH), Met. Dept. - Research Assistant

Publications

- 11 Technical papers/publications presented in international fora.
4 Limited circulation papers presented at special symposia.

Patents

- 13 Patents related to modules for electric smelting reactors.
5 Patents related to new processing concepts e.g. electric smelting reactors.
4 Patents related to New Process Concepts 2 Patents.

References

References available upon request.

Contact



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