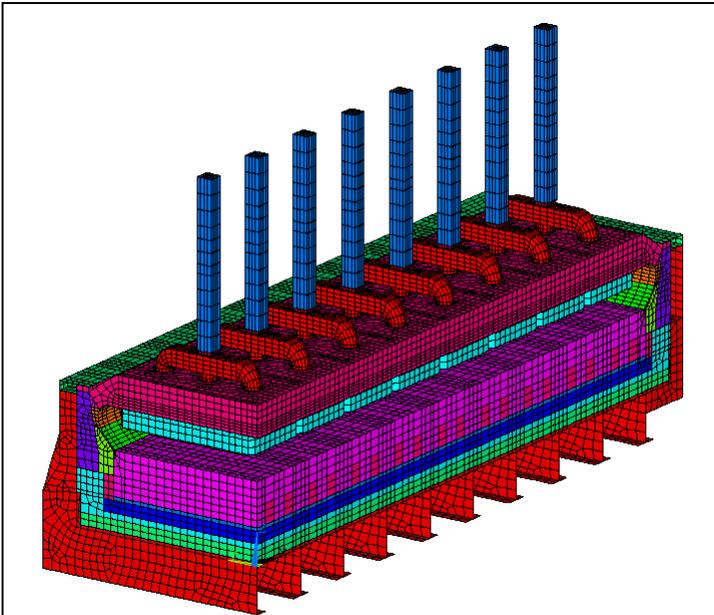


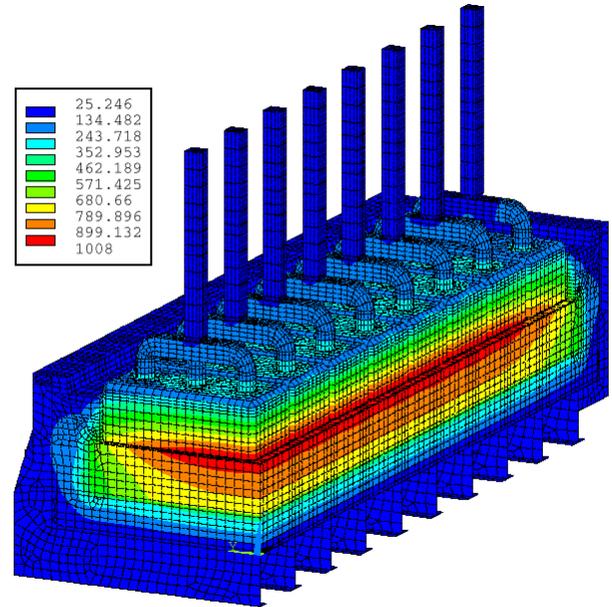
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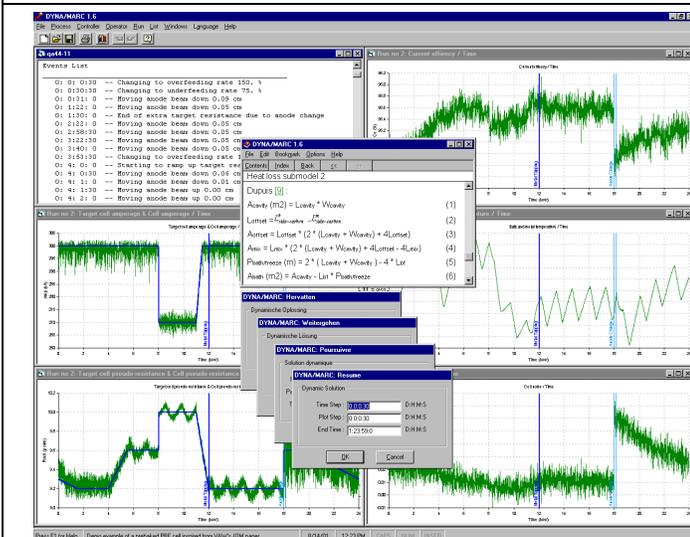
Specialized in Numerical Simulation applications
related to the Hall-Héroult process



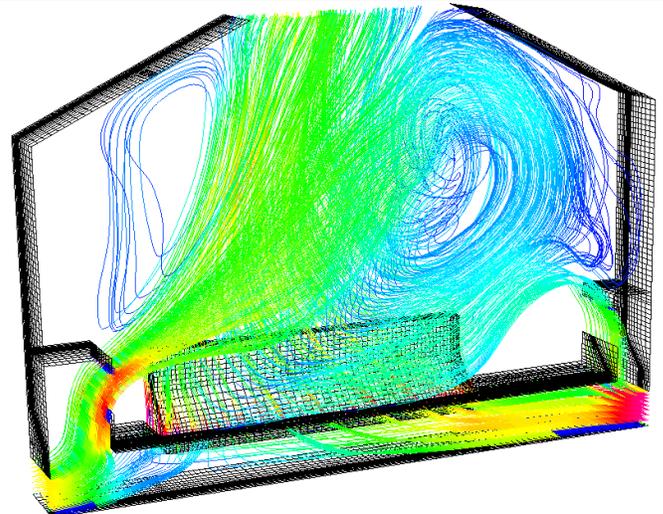
Model of the thermo-electrical behavior of the cell including ledge profile prediction.



Transient thermo-electrical model of the cell preheat.



Dynamic Windows based "lump parameter+" cell simulator



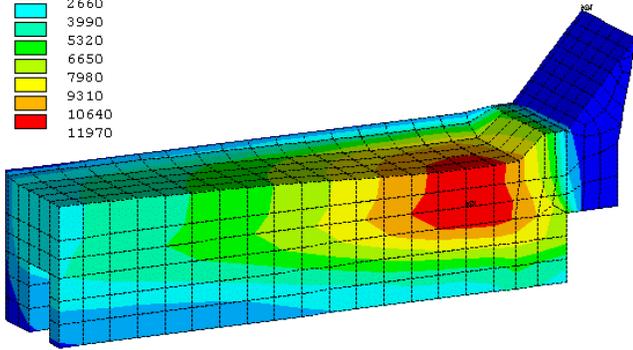
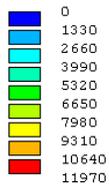
Model of the behavior of the air circulation in the potroom of an aluminum smelter.

GéniSim Inc., 3111 Alger Street, Jonquière, (Québec), Canada, G7S 2M9
• Tel: (418) 548-1541 • Fax: (418) 548-4215 • E-mail: dupuis@genisim.com

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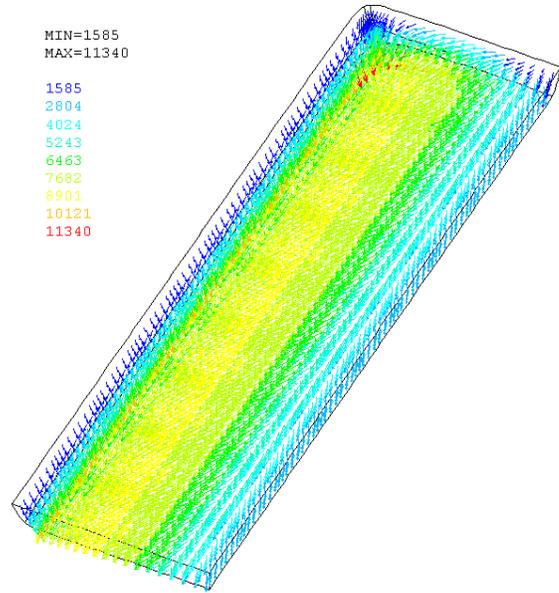
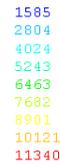
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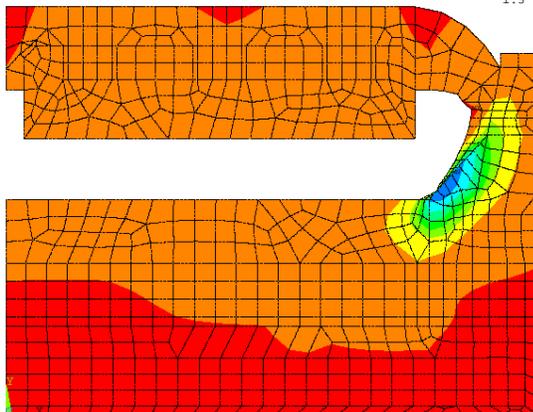
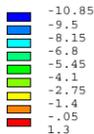
Dynamic cathode erosion model based on an erosion law proportional to cathode surface current density.

MIN=1585
MAX=11340



Accurate current density calculation based on predicted ledge profile.

ANSYS 5.3
SEP 16 2001
19:19:33
PLOT NO. 1
AVG ELEMENT SOLUTION



Temperature change

Dynamic 2D+ ANSYS based cell simulator



Thermo-electric model validation including support in performing "thermal blitz" campaign

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