

ABB Review 3/2007

Pioneering collaboration

Collaboration gateway

- 6**
The optimal way to cooperate
Scientific analysis underlines the successful concept.
- 9**
Staying power on two legs
Why companies should strive to integrate university collaborations into their product and service development process.
- 11**
No step without the customer
Determining customer “needs” as opposed to “wants” is an art in itself. So how does ABB approach this?

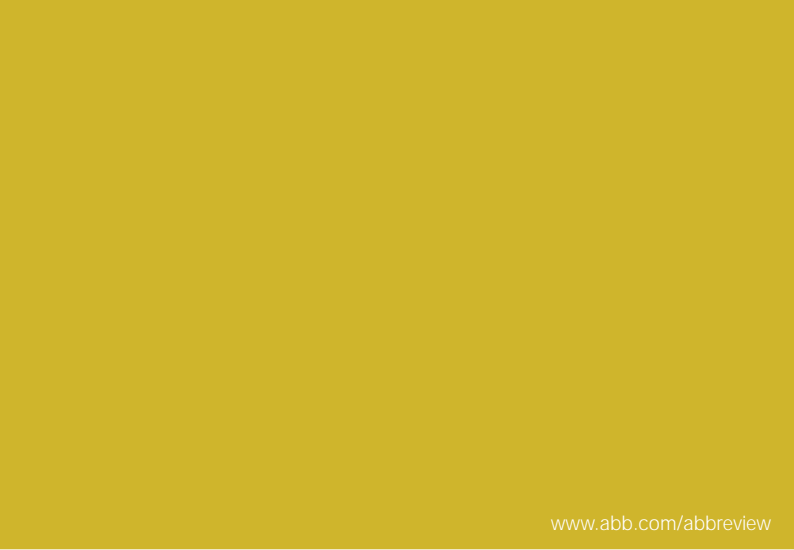
Process collaboration

- 15**
Collaborating for success
How an innovative relationship benefits not only the two main players but also customers in all process industries.
- 18**
Thinking ahead
When fuel quality is far from cemented you can still make cement – compensating variability using Expert Optimizer.
- 22**
Hydrofluoric acid alkylation
Making the refinery process safer and more efficient.
- 27**
Tapping technology
Thirsting for expertise? The city of Basel taps into ABB's OPTIMAX® to keep its water flowing.

- 31**
A smooth shutdown
Turning off the tap need no longer send shockwaves through the plumbing.

Power collaboration

- 34**
Combining forces to provide stability
Preventing instability in grids that cover huge distances.
- 39**
Control and protection
Developing the medium voltage protection device, CEPA.
- 42**
Detected!
Invisible, dangerous and challenging. High impedance faults have evaded detection long enough.
- 46**
Safety in speed
Its job is to protect. ABB's Fast Protective Device is in a league of its own.
- 50**
Partners in technology
TPC transformers answer the need for greater functionality, safety and reliability.
- 53**
Oiled and ready to go
An innovative solution has “transformed” the use of vegetable oil.



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Automation collaboration

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Pressing challenge

With DDC servo technology you can run a press line faster without pressing any faster.

63

Welding dedication

Lean, agile, and a dedicated welder: the IRB 6620 robot.

65

Robotic specialists

A multi-talented robot does many things well, but a specialist robot does one thing better.

68

Customer driven

Extraordinary drives for extraordinary applications.

72

Integrated operations

A consortium led by ABB optimized and integrated Statoil's operations. And what a TAIL they have to tell!

76

What loops can tell us

A malfunction in one control loop can have a plant-wide domino effect. Prevention is often better than cure.



Perpetual pioneering

80

Transforming history

More than a century of progress in transformers – now that's something to hum about.