

VAISALA NEWS

Contents 181/2009

- 3** It all starts with a customer need
- 4** Measuring climate change
- 7** Developments in road weather monitoring
- 9** Humidity monitoring lends a hand to stained glass preservation techniques in St. Patrick's cathedral
- 12** Global Lightning Dataset maps lightning flashes anywhere in the world
- 14** Aquaplaning - too much water on the runway?
- 16** Humidity measurement in cleanrooms: the devil is in the details!
- 18** 21st century 4-stroke engine based power plants rely on Vaisala humidity measurement
- 21** Weather measurements and WXT520 in building automation
- 22** Out in the field
- 24** Innovative air quality application to increase the knowledge, control and management of air quality
- 26** Multi-level lightning detection cooperation in France
- 28** Briefly noted

Vaisala in brief

Vaisala is a global leader in environmental and industrial measurement. Building on more than 70 years of experience, Vaisala contributes to a better quality of life by providing a comprehensive range of innovative observation and measurement products and services for meteorology, weather critical operations and controlled environments. Headquartered in Finland, Vaisala employs over 1200 professionals worldwide and is listed on the NASDAQ OMX Helsinki.



Humidity transmitters can be used to monitor humidity and temperature to prevent condensation in stained glass preservation. [Page 9](#)



Study of lightning is steadily gaining importance in the eyes of both industry and academia. Vaisala's new Global Lightning Dataset provides uniform, real-time lightning information across the globe. [Page 12](#)



Aquaplaning poses a serious risk to aviation safety during heavy rain. The Civil Aviation Authority of Singapore began searching for a way to generate more precise and timely information for the pilots on how much water is on the runway. [Page 14](#)

Cover photo: Shutterstock / Editor-in-Chief: Sanna Nyström
Publisher: Vaisala Oyj, P.O. Box 26, FI-00421 Helsinki, FINLAND
Phone (int.): + 358 9894 91 / Telefax: + 358 9894 92227
Internet: www.vaisala.com / Layout: Sampo Korkeila
Printed in Finland by: SP-Paino / ISSN 1238-2388