

## INDEX TO TECHNICAL PAPERS IN CICIND REPORTS

The Titles, Authors and Publication Dates  
of the approximate **300 Technical Papers** published in earlier **CICIND Reports**,  
can be viewed and downloaded here.

Individual papers can be ordered by mailing the details of the article to the secretary.  
Price: 20,00 EURO for Europe and 30,00 US-Dollar outside Europe incl. postage.

A CD containing all past CICIND Reports is also available.  
Please contact the Secretary ([secretary@cicind.org](mailto:secretary@cicind.org)) for more Information.

## CHIMNEY DESIGN

### Case Histories

*Design and Construction of Mellach Plant Chimney, Incorporating a desulphurisation Plant*

Brunold, H. & Feischl, M., Vol. 5, No. 1, 1989

*Design and construction of a cluster of 7 steel chimneys*

Bouten, J., Vol. 11, No. 1, 1995

*Innovative design aspects of the 200m concrete chimney, Pocerady, Czech Republic*

Noakowski, P., Breddermann, et al, J., Vol. 12, No. 1, 1996

*Chimney design practice in Greece*

Angelides, M., Vol. 13, No. 1, 1997

*Design of reinforced concrete chimney of Shih-Lin incinerator plant*

Fu, T.S., Chen, Y.C., Mu, L.C., Vol. 13, No. 2, 1997

*Wind turbines on tall reinforced concrete chimney stacks*

Bendix, H., Vol. 16, No. 1, 2000

*The Kyoto Protocol and conditions of chimney service in Russia*

Elshin, A., Astashkin, V., Luzhkov, V., Vol 21, No 2, 2005

*The Formation of CICIND - A Retrospection*

Bottenbruch, H., Vol. 24, No. 1, 2008

### Economics

*Chimney business: Atmosphere of crisis or opportunity*

Henseler, F., Vol. 10, No. 1, 1994

*A long term prognosis on the development of industry and energy consumption in Germany*

Priebe, W., Vol. 10, No. 1, 1994

*Stack Problems and Consequential Costs*

Standish I., Vol. 11, No. 2, 1995

*Cost Optimisation Methods in Chimney Design*

Angelides, M., Vol. 11, No. 2, 1995

### General

*Design Aspects of Chimneys in Austrian Power Plants*

Nussbaumer, L. & Prah, L., Vol. 5, No. 1, 1989

*Safety in the CICIND concrete and steel chimney codes*

Van Koten, H., Vol. 9, No. 2, 1993

*Some unusual or unique chimneys*

Smith, D.T., Vol. 11, No. 1, 1995

*Progress in FGD Chimneys*

Henseler, F., Vol. 12, No. 1, 1996

*No noise is good noise - developments in noise assessment and control*

Tompsett, K.R., Vol. 15, No. 1, 1999

*Calculation of the damping of chimneys*

van Koten, H., Vol. 17, No. 1, 2001

*Improving the inflow into a chimney*

Ruscheweyh, H., Vol. 19, No. 1, 2003

*Chimneys for PeatFired Power Plants - using the examples of Lough Ree Power and West Offaly, Ireland*

Hoffmeister, H, Draese, R., Vol. 21, No 1, 2005

*Stability of Codes*

Oudin, G., Vol. 21, No 1, 2005

*Analysis of the Efficiency of Advertisement on Chimneys*

Elshin, A., Vol 22, No 1, 2006

*Solar Tower for a Thermosolar Power Plant*

Villa, I., Vol. 22, No. 2, 2006

*Rumanian Industrial Chimneys designed and built in 1965-1985*

Naum, L., Vol. 22, No. 2, 2006

*Automatic Inspection Systems for Industrial Chimneys*

De Espada, C., Vol . 23, No. 1, 2007

*Access Solutions for Chimneys and Tall Structures*

Kelly, A., McCurdy, C., Smith, D., Vol. 23, No. 1, 2007

*Noise attenuation for Chimney Engineers*

Reid, S., Vol. 23, No. 1, 2007

*Dimensioning of Multi-Ring Cross-Sections of RC Chimneys*

Lechman, M., Vol. 23, No. 2, 2007

*Calculation of Reinforcement in Chimneys when Beam Theory is not valid*

Angelides, M. , Zannaki, L., Vol. 24, No. 1, 2008

## CHIMNEY OPERATION

### FGD

*Desulphurisation Systems and their Effect on Operational Conditions of Chimneys*

Henseler, F. (Germany), Vol. 3, No. 2, 1987

*Two phase flow in chimneys - the origin and transport of moisture and particles in the chimney flue*

J. Sipek & P. Snop, Vol. 12 No. 2, 1996

*Desulphurisation of waste gases and their discharge - Review of the situation in Poland*

Ciesielski, R., Vol. 18, No. 1, 2002

### General

*A new automatic device for cleaning the inside of chimneys*

Asteinza, J.E. and Florex, C.G., Vol. 15, No. 1, 1999

### Pressure conditions

*Suction waves (Letter to editor)*

Bierrum, N.R., Vol. 9, No. 1, 1993

## CICIND AND OTHER ORGANISATIONS

*A "home page" for CICIND*

Bottenbruch, H., Vol. 14, No. 1, 1998

*A User's Guide to CICIND's "Home Page"*

Parker, A., Vol. 14, No. 1., 1998

*Overview of the history and work of IVS*

Berger, G., Vol. 14, No. 1, 1998

*Dismantling of a lattice type Cooling Tower,*  
Rost, M., Breddermann, M., Noakowski, P., Vol. 23, No.2, 2007

*The European Standards for free-standing Chimneys and the CE-marking*

Berger, G., Vol. 24, No 1, 2008

*Stacks for Russia - Requirements and Limitations*

Madsen, B., Vol. 24, No 1, 2008

## **COATINGS**

### **Chimney liners**

*Protection of steel and concrete surfaces in the FGD environment*

Collier, S., Vol. 10, No. 1, 1994

*Quality control systems for the installation of a Hastelloy chimney lining, using the "Wall-papering" technique*

Stella, F., Vol. 10, No. 2, 1994

*Protection of chimneys against acid attack and environment conditions*

Ertz, B., Vol. 15., No. 2, 1999

*Early Defects in Surface Protection Systems due to Sulphate contamination and poor Surface Preparation*

Kochan, A., Vol. 20., No. 1, 2004

### **Concrete shell**

*Protecting the outer surfaces of chimneys downstream of flue gas clean-up equipment*

Erdmann, W., Vol. 9, No. 1, 1993

*Protection and maintenance of chimneys*

Muller, B.R., Vol. 6, No. 2, 1990

*How maintenance requirements of RC-chimneys can be reduced by the use of different coating systems*

Kochan, A., Vol. 19, No. 1, 2002

*The new German Guidelines for the Maintenance of Concrete Chimneys*

Kochan, A., Lenz, J., Vol 21, No 2, 2005

*Some experiences with surface protection of reinforced concrete chimneys*

Kochan, A., Lenz, J., Vol 22, No 2, 2006

### **Performance**

*Behaviour and maintenance of coatings in chimneys of EDF fossil-fired power plants*

Thoraval, G.& Clatot, B., Vol. 10, No. 2, 1994

## **CONCRETE SHELL**

### **Construction**

*Concrete Materials for Chimneys in Marine Tropical Environments*

Thornely, H.A., Vol. 4, No. 2, 1988

*Construction of chimneys and towers using slipform and jumpform systems*

Kremser, B., Vol. 9, No. 2, 1993

*Finishing a reinforced concrete chimney 7 years after interruption of its construction*

Ciesielski,R., Vol. 11, No. 1, 1995

*Demolishing chimneys*

Ganopolskiy, M.I., Vol. 9, No. 1, 1993

*Reinforced concrete chimneys - the dismantling of unused chimneys and their use for wind turbines*

Bendix, H., vol. 18, No. 1, 2002

*The effects of poor workmanship and damage on the normal stresses in RC chimneys*

Lechman, M., Vol. 19, No. 1, 2003

*Concrete Chimneys—Design and Construction for a Economical Solution*

Smith, T. Vol. 21, No 1, 2005

*The World of Chimneys or Chimneys of the World*

Voit, S., Vol. 23, No. 2, 2007

*EKIBASTUZ, The World's highest Chimney after 9 years of operation*

Luzhkov, V., Vol. 23, No. 2, 2007

*The Design of the 183m New Chimney, Rugeley, UK Interference Effects*

Goddard, C., Vol. 24, No 1, 2008

*Erection of a concrete flue gas scrubber with upside fluegas stack, top level +105 m*

Kremser, B., Vol. 24, No 1, 2008

### **Design**

*Comparison of Reinforced Concrete Chimneys, Designed According to Various Codes*

Noakowski, P., Vol. 1, No. 1, 1985

*ACI 307 Latest Proposals for the Design and Construction of Reinforced Concrete Chimneys*

Rumman, W.S., Vol. 2, No. 1, 1986

*Creep and Shrinkage Effects on the Stress State of Chimneys Built with Sliding Formwork*

Migliacci, A., Mola, F. & Riva, P., Vol. 2, No. 2, 1986

*Circular Reinforcement of Chimneys under Load of Temperature and Wind*

Noakowski, P., Vol. 4, No. 1, 1988

*Cracking Control in Concrete Chimneys*

Noakowski, P.& Van Dornick, K., Vol. 6, No. 2, 1990

*Minimum Horizontal Reinforcement in Chimneys*

Bierrum, N.R., Vol. 7, No. 2, 1991

*The behaviour of reinforced concrete under the action of repeated heating and wetting*

Krichevsky, A.P. et al, Vol. 9, No. 1, 1993

*Safety in the CICIND concrete chimney code*

Bottenbruch, H., Vol. 9, No. 2, 1993

*Lining support slabs in multi-flue chimneys*

Busch, D. & Noakowski, P., Vol. 11, No. 1, 1995

*Minimum horizontal reinforcement in chimneys (letter to editor)*

Bierrum, N.R., Vol. 7, No. 2, 1991

*Report on Investigation Concerning Fatigue Behaviour of Reinforced Concrete*

Noakowski, P., Vol. 1, No. 1, 1985

*Comparison of Concrete Chimneys Designed to ACI 307-88 and to CICIND Model Code*

Bierrum, N.R., Vol. 11, No. 2, 1995

*Comparison of concrete chimney designs per ACI 307-95 and CEN*

Bierrum, N.R. & van Koten, H., Vol. 12, No. 2, 1996

*A New Calculation Method for Cordemais Chimney*

Berthet, Y., Vol. 11, No. 2, 1995

*Temperature effects in reinforced concrete chimneys and the prospects of steel fibre shotcrete for reinforcement of concrete chimneys*

Krichevsky, A.P., Brizhaty, O.E., Korsun, V.I. & Krichevsky, S.A., Vol. 12, No. 1, 1996

*Calculation of chimney vibrations by transfer matrix method*

Jalil, W., Vol. 12, No. 1, 1996

*ACI 307-95 - Major revisions from ACI 307-88 and latest direction*

Bochicchio, V., Vol. 12 No. 2, 1996

*Hot Air Jacket For 150M Multi - Flue Steel Lined Chimney Monfalcone Italy*

Davenport, J.F., Vol. 12 No. 2, 1996

*On the failure mechanisms of reinforced concrete chimneys*

Schueller, G.I. & Bucher, C.G., Vol. 13, No. 2, 1997

*Failure probability and load factors*

Bierrum, N.R., Vol. 14, No. 1, 1998

*The revised CICIND Model Code for Concrete Chimneys – Part A, The Shell*

Bierrum, N.R., Vol. 14, No. 2, 1998

*Comparison of Crack Limitations in CICIND and EC2*

Noakowski, R., et al., Vol. 14, No. 2, 1998

*Analysis of concrete chimneys for mining shocks*

Cieselski, R., Vol. 14, No. 2, 1998

*Control of Crack Width – Comparison of predictions in CICIND and EC2*

Bierrum, N.R., Noakowski, P., Schäfer, H.G., Woitzik, M., Vol. 15, No. 2, 1999

*Circular reinforced concrete shaft cracking caused by moisture differential*

Moncarz, P.D., Coetzee, R.B., Noakowski, P., Vol. 15, No. 2, 1999

*Stabilisation of cracked chimney flues at Matimba Power Station, RSA*

Coetzee, R., Moncarz, P., Noakowski, P., Stegman, M.,

Vol. 15, No. 2, 1999

*Control of crack width in CICIND and EC2*

Bierrum, N.R., Vol. 16, No. 1, 2000

*Experimental evaluation of temperature distribution in chimneys under sun exposure*

Lechman, L., Vol. 16, No. 1, 2000

*A review of codal safety provisions for reinforced concrete chimneys subject to wind loading*

Menon, D., Vol. 16, No. 1, 2000

*ACI 307-98 and CICIND 2001. Comparison of in-line wind loads and reinforcement*

Bierrum, N.R., Vol. 17, No. 2, 2001

*Rheological distribution of stresses in the shafts of reinforced concrete chimneys*

Ciesielski R., Oruba, R., Vol. 18, No. 1, 2002

*Experimental study to investigate the cyclic behaviour of reinforced concrete chimney sections with openings*

Wilson, J.L. & Kilic, S.A., Vol. 19, No. 2, 2003

*Concrete Chimneys - Design and Construction for a Economical Solution*

Smith, T., Vol. 21, No 1, 2005

*Cross Wind Tests on a Concrete Chimney with high Reynolds Numbers*

Van Koten, H., Vol. 23, No.1, 2007

*Resistance of Non-Circular Cross-Sections of RC Chimneys*

Lechman, M., Vol. 23, No.1, 2007

*Beam Theory versus Shell Theory with respect to the Design of Reinforcement in Chimneys*

Angelides, M., Vol. 23, No. 2, 2007

### **On-line testing**

*The LADIR System for remote vibration measurements*

Rota, A., Vol. 3, No. 1, 1987

*Dynamic Structural Testing of Torre Valdaliga Nord Power Plant's 250m High Chimney*

Da Rin, E.M., Vol. 3, No. 1, 1987

*The Dynamic Monitoring of Industrial Chimneys*

Sageau, J.F., Vol. 3, No. 1, 1987

*Vibration Monitoring of Tall Concrete Chimneys*

Da Rin, E.M. & Stefani, S., Vol. 4, No. 2, 1988

*Monitoring of power station chimneys*

Sageau, J.F., Vol. 10, No. 2, 1994

*Creep of Concrete Platforms. Special Design Measures Due to Creep Effects on Concrete Platforms in Multi-Flue Chimneys*

Ertz, B., Hoffmeister, H., Vol. 20, No 1, 2004

### **EARTHQUAKE DESIGN**

*Design of concrete chimneys in areas of high seismicity*

Allsop, A., Booth, E. & Blanchard, J., Vol. 9, No. 2, 1993

*Development of the Turkish earthquake resistant design codes, with reference to industrial chimneys*  
 Aydinoglu, M.N., Vol. 10, No. 2, 1994

*Earthquakes in Turkey - a case study of the Erzincan earthquake*  
 Ansal, A.M., Vol. 11, No. 1, 1995

*Ductility of reinforced concrete chimneys subject to earthquake excitation*  
 Wilson, J., Vol. 13, No. 2, 1997

*Aseismic design in Romania and evaluating existing chimneys seismic areas*  
 Rosetnic, V., Vol. 13, No. 2, 1997

*The earthquake response of reinforced concrete chimneys*  
 Wilson, J., Vol. 14, No. 2, 1998

*Earthquake design and analysis of tall reinforced concrete chimneys*  
 Wilson, J.L., Vol. 15, No. 2, 1999

*Code recommendations for the aseismic design of tall reinforced concrete chimneys*  
 Wilson, J., Vol. 16, No. 2, 2000

*Experiences of the Marmara and Bolu earthquakes in Turkey, 1999*  
 Tunca, T., Vol. 16, No. 2, 2000

*Earthquake damage to chimneys at the Taichung Power Station, Taiwan, 1999*  
 Hing-en, L., Ming-Chih, C., Vol. 16, No. 2, 2000

*Damage observations from the Izmit (Kocaeli), Turkey earthquake August 17, 1999*  
 Moncarz, P., Shusto, L., Vol. 17, No. 1, 2001

*A preliminary analysis of the Tupras Refinery stack collapse during the Kocaeli earthquake of 17 August 1999*  
 Kilic, S., Moncarz, P., Noakowski, P., Vol. 17, No. 1, 2001

*Seismic behaviour of reinforced concrete chimneys*  
 Riva, P., Vol. 17, No. 1, 2001

*Seismic load reduction factors for reinforced concrete chimneys: probabilistic assessment*  
 Wilson, J.L., Vol. 17, No. 2, 2001

*Seismic performance of the Pennguard chimney lining system*  
 Wilson, J.L. & De Kreij, A., Vol. 18, No. 2, 2002

*Non-linear response of the 115m Tupras refinery stack subjected to the 1999 Kocaeli earthquake*  
 Akinci, N.O. & Kilic, S.A., Vol. 18, No. 2, 2002

*An approach to the capacity design of reinforced concrete chimneys*  
 Rosetnic, V., Vol. 19, No. 2, 2003

*Investigation of the cyclic behaviour of reinforced Concrete Chimney Sections with Openings orientated to be shear critical*  
 Wilson, J., Vol. 22, No. 1, 2006

## EUROCODES

### Overview

*The Internal European Market in 1992*

Breitschaft, G., Vol. 6, No. 1, 1990

*The Eurocodes*

Seyfert, H.J., Vol. 6, No. 1, 1990

### Technical

*An assessment of EC8 rules for the seismic design of reinforced concrete chimneys*

Rosetnic, V., Vol. 15, No. 1, 1999

*Technical Content of the Eurocodes*

Nieser, H., Vol. 6, No. 1, 1990

*Structural design rules for steel chimneys - the preparation Eurocode 3, Part 3.2*

B.W. Smith et al, Vol. 13, No. 1, 1997

*An assessment of EC8 rules for the seismic design of reinforced concrete chimneys*

Rosetnic, V., Vol. 15, No. 1, 1999

## FOUNDATIONS

### Design

*Chimney Foundations*

Thompson, R., Vol. 2, No. 2, 1986

*Chimney Foundations*

Van Koten, H., Vol. 5, No. 1, 1989

*Piled Foundation of the 250m Tall Multiflue Chimney at Torre Valdliga Nord Power Plant*

Ulisse, F., Caruana, R. & Stefani, F., Vol. 5, No. 1, 1989

*Thermally induced deflections of a chimney foundation*

Aschieri, F. & Ulliana, F., Vol. 1, No. 1, 1985

*Optimum dimension and reinforcement of concrete foundation blocks for steel chimneys*

H. van Koten, Vol. 12, No. 2, 1996

*Mining subsidence and mining shock influence on chimneys in Upper Silesia*

Ciesielski, R., Vol 19, No. 1, 2003

## LININGS

### Brickwork liners

*Brick lining versus Pennguard lining - can Pennguard win?*

Noakowski, P. and de Kreij, A., Vol. 15, No. 1, 1999

*Investigations of the Comparability of Different Standards for the Determination of the Acid Resistance of Bricks*

Bottenbruch, H. Posch, H., Vol. 2, No. 2, 1986

*Thermal stress states in acid-resisting brickwork linings for industrial chimneys*

Da Rin, E.M. & Uliana, A.F., Vol. 8, No. 1, 1992

*Design and construction of elliptical brickwork linings*

Van Dornick, K & Noakowski, P., Vol. 8, No. 1, 1992

*Behaviour of the liner support system in a multi-flue chimney*

Noakowski, P. & Van Dornick, K., Vol. 8, No. 2, 1992

*Consequence of a sudden interruption of gas flow*

Haag, G. & Noakowski, P., Vol. 9, No. 2, 1993

*Brick lining reinforcement with protective coating*

Busch, D. & Noakowski, P., Vol. 10, No. 2, 1994

*Thermal stresses in brickwork liners downstream of FGD*

Lechman, M., Vol. 13, No. 1, 1997

*The plasticity behaviour of potassium silicate mortars*

Sipek, J. & Kolisko, J., Vol. 16, No. 1, 2000

*Maintenance of brickwork linings and environmental impact*

González Flórez, c. & Del Solar, J., Vol. 19, No. 2, 2003

*Nonlinear thermal behavior of a bricklining during heating-up*

Coetzee, R., Willemse, P., Vol. 22, No. 2, 2006

*Abnormal behaviour of Chimney Brickliners due to underestimated Gas Flow Conditions*

Poli, M., Di Poi, G., Vol. 22, No. 2, 2006

### **Steel liners**

*Hot Air Jacket For 150m Multi-Flue Steel Liners in a 150m Tall Chimney*

Davenport, J.F. & Smith, D.T., Vol. 7, No. 2, 1991

*The effect of spiral gas flow on steel chimney liners*

Bierrum, N.R., Vol. 12, No. 1, 1996

*Steel flues on a R.C. chimney, 300m high. Excessive vibrations and arrangements for strengthening*

Cieselski, R., Vol. 15, No. 2, 1999

*Clad steel plates for chimney liner applications in Japan*

Akabane, H., Yamamura, Y., Saito, Y., Vol. 15, No. 2, 1999

*Practical aspects of fabricating nickel-chromium alloys. Lining and overlaying.*

Heath, D., Vol. 16, No. 2, 2000

*Clad plate for air pollution control equipment*

Akabane, H., Yamamura, Y., Saito, Y., Vol. 16, No. 2, 2000

*Replacement of a Steel Liner—Diameter 2.3 m — in a 160 m high Chimney*

Kremser, B., Vol. 20, No.1, 2004

### **Concrete Liners**

*Concrete Chimneys with Cast-In-Situ Linings of Polymer Cement Concrete*

Lebedev, V.G., Vol. 7, No. 2, 1991

*Unexpected Behaviour of some R.C. Chimneys in Polish Heat-Generating Plants*

Lechman, M. & Lewinski, P., Vol. 11, No. 2, 1995

### **GRP liners**

*Design of a "Sandwich" GRP Chimney Liner Incorporating Thermal Insulation*

Oudin, G., Vol. 11, No. 2, 1995

*The use of GRP to repair chimney liners in an FGD environment*

Schmidt, R., Vol. 14, No. 1, 1998

*The use of FRP in flue gas desulphurisation processes*

Kamody, J., Vol. 13, No. 1, 1997

*Large diameter GRP liners in the United States*

Ershig, A.H., Vol. 13, No. 1, 1997

*Design of FRP equipment for FGD systems*

Ness, J., Vol. 13, No. 1, 1997

*Structural behaviour of a 160m chimney with GRP liner, 2.5m diameter*

Di Poi, G., Vol. 13, No. 1, 1997

*Phenolic resins in stack and flue service*

Heppenstall & Orpin, Vol. 13, No. 1, 1997

*Design of sandwich GFRP chimneys*

Maslov, Vol. 13, No. 1, 1997

*GRP Liners - review by the CICIND Committee Chairman*

Reid, S., Vol. 17, No. 1, 2001

*FRP-liner with heating system as measure to prevent the formation of particles and droplets*

Ertz, B., Vol. 19, No. 1, 2003

*Retrofit of GRP Flues at Eggborough Power Station*

Eastman, G., Vol. 20, No.1, 2004

*Study of GRP Tubular Structures Subject to Bending*

Lechman, M., Vol. 21, No 1, 2005

*Chimney for Wet Stack Operation*

Hoffmeister, H., Vol. 23, No. 2, 2007

### **Effects of FGD**

*Innovative Solutions to Chimney Lining Problems*

Snook, R.W., Vol. 3, No. 2, 1987

*Corrosion Protection of Steel Liners in Chimneys Serving Plants with FGD on Stream*

Beaumont, M, Uliana, A.F. & Poli, M., Vol. 6, No. 2, 1990

*Protection of an FGD Plant: Surface Treatment of Steel after Several Years of Operation*

Van Der Sloot, R.J.S., Vol. 6, No. 2, 1990

*Experience of various lining materials in an FGD pilot plant*

Uliana, F., Scolari, P.V. & Poli, M., Vol. 12, No. 1, 1996

*Application of high nickel alloy liners in chimneys in FGD service*  
Plant, W., Vol. 12, No. 1, 1996

*Installation and operation of titanium linings in FGD ductwork and stacks*

Peacock, D., Vol. 12, No. 1, 1996

*Application of protective linings to flues and ductwork in FGD environment*

Collier, S., Vol. 12, No. 1, 1996

*Repairing chimney liners using borosilicate glass blocks*

den Boogert, E., de Kreij, A. & Huxley, N., Vol. 12, No. 1, 1996

*Behaviour of various lining materials and metals in an FDG Pilot Plant*

Uliana, A., Scolari, P., Poli, M., Vol. 12., No. 1, 1998

*FGD - Past experience has shown that failures can be prevented*

Henseler, F., Vol. 13, No. 2, 1997

*Chimneys for wet scrubber power plant applications*

Sowizal, J.C., Vol. 13, No. 2, 1997

*Nickel containing materials in flue gas desulfurization equipment*

Plant, W.H.D., Mathay, W.L., Vol. 15, No. 2, 1999

*Wet Stack application. Chimney Operation without Flue Gas reheating after FGD*

Breddermann, M., Noakowski, P., Lenz, J., Vol. 20, No.1, 2004

*Moneypoint Chimneys*

Hayes, T., Quigley, F., Vol. 21, No 1, 2005

*Aberthaw power station prepares existing brick chimney flues for FGD operation by installing Pennguard®*

De Kreij, A., Eastman, G. Vol. 21, No 2, 2005

*Design of a Chimney with GRP Liner for Low and High Temperature Operation*

Bochicchio, V., Vol 22, No 1, 2006

*EDF Energy Cottam modifies 200 m high, multi-flue chimney for Wet Stack Operation*

Eastman, G., De Kreij, A., Vol. 22, No. 2, 2006

*Performance of the Pennguard® Block Lining System during large power plant fires*

De Kreij, A., Vol. 23. No. 1, 2007

*Pennguard linings in free standing brick flues - Three projects in the USA*

De Kreij, A., Vol. 23. No. 2, 2007

### **On-Line Monitoring**

*Hot Camera Inspections*

Miller, J.D., Vol. 3, No. 1, 1987

*Introduction to Thermography*

Van Chastelet, L., Vol. 3, No. 1, 1987

*Monitoring of Chimney Performance*

Aschieri, F., Vol. 7, No. 2, 1991

*Scanliner Diagnoses*

Sushchev, S., Vol 21, No 2, 2005

### **Performance**

*Overview of US experience with linings and coatings for concrete chimneys*

Sowizal, J.C., Vol. 8, No. 1, 1992

*Behaviour of linings in chimneys of Electricité de France*

Thoraval, G, Vol. 8, No. 1, 1992

*Flue gas liners under extreme operating conditions*

Kremser, B. Vol. 18, No. 1, 2002

### **Seals**

*Sealing joints for chimney liners*

Poli, M., Vol. 9, No. 2, 1993

*Elastomeric seals fitted downstream of FGD at Drax power station*

Brown, T.R. & Evans, W., Vol. 10, No. 1, 1994

*The RAL quality control system for expansion joints and seals in industrial chimneys*

Tuckmantel, H.J., Vol. 11, No. 1, 1995

*History of the development of fluorelastomer compounds for use in flue expansion joints*

Bauerle, J.G., Vol. 12, No. 2, 1996

*Fundamental procedures and techniques for planning, repair, retrofit and maintenance of non-metallic expansion joints and chimney seals to 600°C for scheduled and unscheduled outages*

Reichel, H. & Brown, T., Vol. 19, No. 2, 2003

## **QUALITY**

### **Philosophy**

*What is the Meaning of Quality Assurance and To What End do we Pursue it?*

Erdmann, W., Vol. 7, No. 1, 1991

*A New Philosophy in Concrete Construction*

Neseguer, A.G., Vol. 7, No. 1, 1991

*The relationship between Excellence and Quality (letter to editor)*

Warren, R.M., Vol. 8, No. 1, 1992

### **Quality Assurance**

*Quality Assurance in the Republic of South Africa*

Engelbrecht, W., Vol. 7, No. 1, 1991

*Quality Assurance of Steel Stacks in the USA*

Warren, R.M. & Reid, S.L., Vol. 7, No. 1, 1991

*Quality Assurance to BS 5750*

Beaumont, M., Vol. 7, No. 1, 1991

## **RECONDITIONING**

### **Deterioration**

*Corrosion deterioration in reinforced concrete chimneys*

Moncarz, P.D. et al, Vol. 9, No. 1, 1993

*The estimation of effects of localised defects on the integrity of concrete chimneys*

Levin, V.M., Vol. 9, No. 1, 1993

*Some Comments on the Deterioration of Industrial Chimneys, provoked by changes in their duty*

Tzincoca, A., Vol. 4, No. 2, 1988

*Collapse of a 150m tall Concrete Chimney*

Meiche, H., Vol. 7, No. 2, 1991

*Damage by Hurricane Andrew to reinforced concrete stacks in Florida*

Moncarz, P. & Noakowski, P., Vol. 12, No. 2, 1996

*Thermal effects on the Florida Power & Light Co's Turkey Point Unit 2 Chimney*

Cook, R.A., Hatfield, J.T., Brannen, W.F. & Joseph, T.D., Vol. 12, No. 2, 1996

*Assurance of the availability of two chimneys, 250m and 300m tall, in Secunda, RSA*

Noakowski, P. et al, Vol. 14, No. 1, 1998

### **Inspection**

*Steel chimney inspection*

Beaumont, M., Vol. 13, No. 2, 1997

*Assessment of chimney life*

Fellows, A., Vol. 13, No. 2, 1997

*Introducing a new "hot" camera system for videoing chimneys internally, on-line*

Oudin, G., Vol. 14, No. 1, 1998

*Investigation of a 30 year old 200m tall power plant chimney*

Rosetnic, V., Vol. 14, No. 1, 1998

*Monitoring and computer-aided assessment of existing chimneys*

Lechman, M., Vol. 15, No. 1, 1999

### **Repairs**

*A method of refurbishing old brick chimneys to suit modern environmental conditions*

Beaumont, M, Vol. 8, No. 2, 1992

*Repair & rebuilding of a steel chimney using reinforced concrete*

Laegaard, J, Vol. 8, No. 2, 1992

*A composite method for crack repair and restoration of the load capacity of a reinforced concrete chimney*

Wippel, H, Steidle, P & Wendt, I, Vol. 8, No. 2, 1992

*Rehabilitation of two concrete chimneys, diameter 5m and height 100m*

Toscano, A., Vol. 8, No. 2, 1992

*Unconventional methods for concrete chimney repair*

Frumkin, V.H., Vol. 8, No. 2, 1992

*Modern principles in concrete repair on chimneys*

Holdt, P., Vol. 10, No. 2, 1994

*Reconditioning measures on power plant chimneys because of an increase in boiler output or conversion to operation with FGD system*

Ertz, B., FGD, Vol. 3, No. 2, 1987

*Major Repair Executed on a Small Concrete Chimney*

Coradi, A., Vol. 4, No. 1, 1988

*Concrete Chimneys Life Extension in Power Stations*

Gonzales, C. & Del Solar, J., Vol. 11, No. 2, 1995

*Cladding to reinforced concrete chimney windshields*

Bierrum, N.R., Vol. 13, No. 2, 1997

*Repair of a damaged concrete chimney using a steel sheath*

Pinfold, G., Vol. 13, No. 2, 1997

*Al Arish chimney linings failure and subsequent repairs*

Smith, D.T., Vol. 14, No. 2, 1998

*Repair of a ceramic brick liner in wet FGD service using borosilicate glass blocks*

de Kreij, A., Vol. 14, No. 2, 1998

*Standby chimneys – design, construction and operation problems*

Jezek, B. & Sipek, J., Vol. 16, No. 1, March 2000

*Interesting retrofits and repairs to steel chimneys*

Warren Jnr., R., Vol. 17, No. 1, 2001

*Long-term behaviour of reinforced concrete industrial chimneys*

*Romania and a retrofit solution for the No 2 chimney of the Isalnita-Craiova power plant*

Naum, L. & Furis, D. Vol. 17, No. 2, 2001

*Strengthening chimney shafts using CFRP composites*

Lechman, M., Vol. 18, No. 1, 2002

*Replacement of a brick liner with steel flue. Design and construction considerations*

Noakowski, P. & Moncarz, P.D., Vol. 18, No. 2, 2002

*Stabilization of a nearly collapsed brick liner in a concrete chimney and subsequent reuse of the liner*

Bhowmik, A., Vol. 19, No. 2, 2003

*Modern methods of reconstruction of chimneys*

Elshin, A., Astashkin, V., Luzhkov, V., Vol 21, No 2, 2005

*Conversion of a 180 m high chimney*

Kremser, B., Wanzek, U., Lindner, S., Vol. 23, No. 1, 2007

*Curing technology for concrete and mineral mortars using protection coatings*

Kochan, A., Vol. 23, No. 2, 2007

## **STEEL CHIMNEYS**

### **Case histories**

*Two steel chimneys having a particular design and deflection requirements with regard to oscillation behaviour*

Ferlic, N., Vol. 14, No. 1, 1998

*Heightening of a brick-built chimney by a guyed steel top*

Prinz, M. and Roels, V.K., Vol. 14, No. 1, 1998

*A challenging chimney retrofit project for a steel producing company in Ontario, Canada*

Bhowmik, A., Vol. 17, No. 2, 2001

## **Construction**

*Sixty years experience of steel chimney erection*

Beaumont, Max, Vol. 14, No. 1, 1998

*A novel solution to a difficult chimney erection problem*

De Jong, J., Vol. 9, No. 2, 1993

*The design and construction of a 100m tall double-skin, free-standing chimney*

Smith, D.T., Vol. 17, No. 1, 2001

*Evaluation of Steel self-supporting Interceptor Smoke Stacks Endurance Life*

Syrykh, V. A., Gubaidulin, M. R., Shmatkov A.S., Vol 21, No 2, 2005

*Increase in Height of 42 m chimney to 90 m in Waterford, Ireland*

Pinfold, G., Madsen, C., Vol. 22, No. 1, 2006

*Design and construction of three 75 m high Steel Chimneys placed in a triangle and surrounded by louver rings*

Madsen, C., Madsen B., Vol. 23, No. 1, 2007

*Flare Tip Replacement, at Tengiz, Kazakhstan*

Kelly, A., Vol. 23, No. 2, 2007

*COMPARISON of windloads between the current DIN4133-1991 and the new DIN4133-2007*

Madsen, B., Vol. 23, No. 2, 2007

## **Dampers**

*Mistuned mass dampers*

Bierrum, N.R., Vol. 10, No. 2, 1994

*Tuned mass dampers (Letter to editor)*

Bierrum, N.R., Vol. 11, No. 1, 1995

*Shell to flue impact damping for dual wall and multiflue chimneys*

Warren, R.M. & Reid, S.L., Vol. 10, No. 1, 1994

*Optimum control of chimney vibration*

Hirsch, G.H. & Jozsa, M., Vol. 10, No. 1, 1994

*Vibration control of stacks by passive dampers - a numerical experimental study of the damping effect of inner tubes inside a stack and a new dynamic vibration absorber*

Ruscheweyh, H., Kammel, C., Verwiebe, C., Vol.12, No.2, 1996

*Vibration-dampers for steel chimneys*

van Koten, H., Vol. 19, No. 1, 2003

*New Application of Vibration Dampers to reduce along wind loads*

Oudin, G., Vol. 21, No 2, 2005

*Why and how to increase the Structural Damping of Structures*

Oudin, G., Vol. 22., No. 2, 2006

*Design of Extrem Slender Guyed Structures*

Oudin, G., Vol. .23., No. 2, 2007

## **Design**

*The latest technology and quality control of steel stacks in Japan*

Hirao, K, Vol. 7, No. 1, 1991

*The stress distribution in chimneys due to wind pressure*

Van Koten, H., Vol. 11, No. 1, 1995

*Effect of flange geometry on the strength of bolted joints*

Pinfold, G., Vol. 11, No. 1, 1995

*Safety in CICIND model code for steel chimneys (letter to editor)*

Pritchard, B.N., Vol. 8, No. 2, 1992

*CICIND Model code compared with the Finnish Code SFS 4395 - Steel Chimneys (letter to editor)*

Siirilla, R., Vol. 5, No. 1, 1989

*Profile of the Mitsubishi Advanced Steel Stack ("MASS") System*

Omura, H., Vol. 11, No. 2, 1995

*Report on revisions to ASME/ANSI STS-1 - Steel Stack Standard*

R.M. Warren, Vol. 12 No. 2, 1996

*Wind load stresses in steel chimneys*

J.G. Turner, Vol. 12, No. 2, 1996

*A calculation method for fatigue life of steel chimneys subject to cross-wind oscillations*

Van Koten, H., Vol. 14, No. 1, 1998

*Measured damping decrements of steel chimneys and their estimation*

Berger, G. and Verwiebe, C., Vol. 15, No. 1, 1999

*Fatigue and damping of chimneys*

Van Koten, H., Vol. 15, No. 1, 1999

*The new CICIND Model Code for Steel Chimneys*

Pritchard, B.N., Vol. 15, No. 2, 1999

*Steel stacks for gas turbines*

Ferlic, N., Vol. 17, No. 2, 2001

*Combined cycle gas turbine stacks*

Warren, R.M., Vol. 18, No. 2, 2002

*The accuracy of Stresses in Steel Chimneys caused by Wind*

Van Koten, H., Vol. 20, No.1, 2004

*Design and Construction of 67 m Steel Chimney*

Pinfold, G., Vol. 20, No. 1, 2004

*Fatigue Problems of Steel Chimneys due to Vortex Excited Vibrations in the Second Mode*

Verwiebe, C., Vol 20, No. 2, 2004

*Reinforcement around the openings of Steel Chimneys*

Van Koten, H., Vol. 21, No 1, 2005

*Atenna Carriers of Steel Tubes - Fatigue failure behaviour due to Vortex shedding*

Rost, M., Harling, A., Breddermann, M., Noakowski, P., Vol. 21, No 1, 2005

*Design of a 61m Steel Chimney under Combined Earthquake and Wind Loading*

Angelides, M., Zannaki, L., Vol. 21, No. 2, 2005

*Corrosion allowance in View of the European Standards*

Berger, G., Vol. 22, No. 1, 2006

*Study of Interference effect of Multiple Heater Mounted stacks Placed in on line*

Oke, A., Vol. 22, No. 1, 2006

*Ring stiffeners for steel chimneys*

Van Koten, H., Vol. 22, No. 1, 2006

*Chimney Design with CICIND, DIN 4133 and EURO;*

*A Critical Review*

Verboom, G., Vol. 23, No. 1, 2006

*Vortex Excitation: three Design Rules tested on 13 Industrial Chimneys*

Verboom, G. Verboom, van Koten, H., Vol. 23, No. 2, 2007

*Design Aspects of a 120 m Steel Chimney*

Verwiebe, C., Vol. 24, No. 1, 2008

*The influence of the Terrain roughness on the design of Steel Chimneys*

Van Koten, H., Vol. 24, No. 1, 2008

*Probabilistic model to analyze the structural safety of steel chimneys including corrosion behavior*

Oke, A., Odenbreit, C., Vol. 24, No. 1, 2008

## **WIND**

### **Code Provisions**

*Wind load provisions of ASCE 7-95 for flexible structures*

A. Kareem, Vol. 12, No. 2, 1996

*Blowing in the wind: A critique of the EC1 wind speed proposals*

Allsop, A., Vol. 16, No. 2, 2000

*Comparison of Eurocode EC1: Part 4 wind loads with those calculated by the CICIND Steel and Concrete Codes*

Freathy, P., Vol. 18, No. 2, 2002

### **Cross-Wind Response**

*Cross wind oscillations of cylindrical chimneys at low Reynolds Numbers*

Van Koten, H., Vol. 1, No. 1, 1985

*Evaluation of Methods of Predicting the Across-Wind Response of Chimneys*

Daly, A.F., Vol. 2, No. 1, 1986

*A design approach to evaluating across-wind response of chimneys*

Vickery, B.J., Vol. 2, No. 1, 1986

*Vortex Induced Vibrations of a Steel Chimney*

Karna, T., Vol. 4, No. 2, 1988

*Cross-wind vibrations of cylinders at small Scruton Numbers*

Van Koten, H., Vol. 10, No. 2, 1994

*Mathematical modelling of turbulent wind flow around chimneys*

Younis, B., Vol. 11, No. 1, 1995

*Experiences with Vortex Excited Oscillations of Steel Chimneys*

Ruscheweyh, H. & Verwiebe, C., Vol. 11, No. 2, 1995

*Shell/Liner Interaction on a Flexible Foundation*

Vickery B.J., Vol. 11, No. 2, 1995

*Vortex induced vibrations of line-like structures*

Ole Hansen, S., Vol. 15, No. 1, 1999

*Measurements of the test chimney at Aachen University*

van Koten, H., Vol. 14, No. 2, 1998

*Modifications of aerodynamic forces due to deviation from circular cross section*

Galsworthy, J.K., Vickery, B.J., Vol. 15, No. 2, 1999

*Reduction of cross-wind vibration by turbulence and damping*

Hansen, S.O. & van Koten, H., Vol.16, No. 1, 2000

*Interference effects to vortex induced vibrations between large chimneys of different diameters and lengths*

Ruscheweyh, H., Trätner, A., Vol. 16, No. 2, 2000

*Dynamic Fatigue along wind for tall, slender structures*

Oke, A. Vol. 23, No. 1, 2007

*Vortex-excited Vibration of Steel Stacks in Group Arrangement*

Ruscheweyh, H., Vol. 23, No. 2, 2007

### **Downwash**

*Optimisation of the Top Part of Chimneys, with Regard to the Downwash Effect*

Ruscheweyh, H. & Ertz, B., Vol. 7, No. 2, 1991

*Prevailing conditions at the top of chimneys*

Henseler, F., Vol. 9, No. 1, 1993