Papers presented at PCIC International Subcommittee Sessions:

2001 Toronto (Panel discussions)

PANEL DISCUSSION #1
RISK ASSESSMENT AND AREA CLASSIFICATION (GAS ATMOSPHERES) PROCEDURES IN CHEMICAL PLANTS IN EUROPE
Dr. Klaus de Haas - BASF AG, Germany
Dr. Heribert Oberhem - Bayer AG, Germany
Volker Pandel - InfraServ GmbH & Co., Germany

PANEL DISCUSSION #2
COMPARISON OF CLASSIFICATION PROCEDURES FOR OFFSHORE OIL & GAS PRODUCTION FACILITIES IN THE USA USING THE ZONE CONCEPT
James D. Cospolich - Waldemar S. Nelson & Co., Inc., USA
Francis Stone - Shell Exploration and Production Co., USA

PANEL DISCUSSION #3
INSTALLATION AND WIRING METHODS IN CHEMICAL PLANTS IN EUROPE
Dr. Heribert Oberhem - Bayer AG, Germany
Dr. Klaus de Haas - BASF AG, Germany
Volker Pandel - InfraServ GmbH & Co., Germany
Gerhard Schwarz - CEAG Sicherheitstechnik GmbH, Germany

2002 New Orleans (Panel discussions)

PANEL DISCUSSION #1 (PCIC-2002-37)
CONVERTER-FED MOTORS FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES
Frank Lienesch - Physikalisch-Technische Bundesanstalt, Germany
Clife Hermanowski - CEAG, Germany
Lutz Metzkow - BASF AG, Germany

PANEL DISCUSSION #2 (PCIC-2002-38)
ZONES VERSUS DIVISIONS: A COMPARATIVE ANALYSIS OF NEC ARTICLE 500/505 EQUIPMENT AND WIRING METHOD IN A PETROCHEMICAL FACILITY IN THE UNITED STATES
David Stewart - Waldemar S. Nelson & Co., USA
Francis Stone - Shell International E&P, USA

PANEL DISCUSSION #3 (PCIC-2002-39)
COST SAVINGS PRACTICES FOR MAINTENANCE IN EUROPEAN CHEMICAL PLANTS USING NEWEST INSTALLATION TECHNIQUES
Dr. Klaus de Haas - BASF AG, Germany
Dr. Heribert Oberhem - Bayer AG, Germany
Volker Pandel - InfraServ GmbH & Co., Germany

2003 Houston (Panel discussions)

PANEL DISCUSSION #1 (PCIC-2003-37)
GLOBAL REGULATORY CLIMATE AS IT RELATES TO EXPLOSION-PROTECTED EQUIPMENT
Paul Kelly - Underwriters Laboratories Inc., USA
Uwe Klausmeyer - Physikalisch-Technische Bundesanstalt, Germany
Kerry McManama - Underwriters Laboratories Inc., USA
Giovanni Hummel Borges - UL do Brasil, Brasil
Jan Olesen - UL / Demko A/S, Denmark
PANEL DISCUSSION #2 (PCIC-2003-38)
HOW SWISS CHEMICAL COMPANIES MAKE INSTALLATIONS IN CHINA
Peter Thurnherr - Thuba Ltd, Switzerland
Xu Jianping - NEPSI, China

PANEL DISCUSSION #3 (PCIC-2003-39)
GLOBAL INSTALLATION OF INTRINSICALLY SAFE AND NON-INCENDIVE SYSTEMS
Benjamin Schaefer - Underwriters Laboratories Inc., USA
Giovanni Hummel Borges - UL do Brasil, Brasil
David Malohn - Underwriters Laboratories Inc., USA

2004 San Francisco (Papers presentation)

PCIC-2004-40
FACILITATING PLANT OPERATION AND MAINTENANCE USING AN ELECTRICAL NETWORK MONITORING AND CONTROL SYSTEM SIMULATION TOOL
Terence Hazel - Schneider Electric, France
Isabelle Condamin - Autofina, France
Fabrice Audemard - Autofina, France

PCIC-2004-41
STUDIES AND INDUSTRIAL APPLICATIONS FOR OIL FIELD PUMPS A SPECIAL BRUSHLESS SYNCHRONOUS MOTORS
P. Ali-Zade - Near East University, Turkey
K. Buruncuk - Near East University, Turkey
K. Radjabli - Kema Consulting, USA

PCIC-2004-42
LIGHTING PRACTICES AND APPLICATIONS USE OF HID AND FLUORESCENT LIGHT IN HAZARDOUS AREAS
Rend Ouendag - OGEE - Shell Global Solutions, Netherlands
Gerhard Schwarz - Cooper Crouse-Hinds, Germany
Rainer Eglinsky - Cooper Crouse-Hinds, Germany

2005 Denver (Papers presentation)

PCIC-2005-40
SUMMARY OF INDUSTRY PRACTICES, GUIDES AND STANDARDS RELATED TO ON-LINE PARTIAL DISCHARGE MONITORING OF STATOR INSULATION CONDITION
Vincent Green - ADWEL International Ltd., Canada
Peter Kantardziski - ADWEL International Ltd., Canada
Mladen Sasic - ADWEL International Ltd., Canada

PCIC-2005-41
THE OPERATOR’S VIEWPOINT OF THE ATEX DIRECTIVE 94/9/EC - NEW REGULATIONS AND RULES FOR EXPLOSIVE ATMOSPHERES IN EUROPE
Patrick Leroux - Total, France

PCIC-2005-42
COMPARISON OF ZONE CLASSIFIED ELECTRICAL INSTALLATIONS IN THE U.S. AND EUROPE
Robert Seitz - Artech Engineering, USA
Wolfgang Berner - R. Stahl Inc., USA
Heinz Bockle - R. Stahl Inc., USA
Gerhard Bruchig - The Dow Chemical Company, Germany
2006 Philadelphia (Papers presentations)

PCIC-2006-40
SOFT START / ADJUSTABLE SPEED SYSTEMS FOR MULTIPLE MW RATED MOTORS
Frieder Endrejat - Sasol Technology (Pty) Ltd., South Africa
Pragasen Pillay - Clarkson University, USA

PCIC-2006-41
SAVING ON INSTALLATIONS IN HAZARDOUS AREAS
Rainer Hillebrand - Cooper Crouse-Hinds GmbH, Germany
Gerhard Schwarz - Cooper Crouse-Hinds GmbH, Germany

PCIC-2006-42
CRITICAL SPEED VERIFICATION OF 18,000 HP ADJUSTABLE SPEED DRIVE MOTORS FOR OFFSHORE PRODUCTION APPLICATIONS
David Rains - WEG Electric, USA
Carlos Bavastri - UTFPR, Brasil
Rogério da Silva Campos - Petrobras, Brasil
Inam Haq - Dresser-Rand, USA
Kazuo Shoji - WEG Industrias, Brasil
Hideraldo dos Santos - WEG Industrias, Brasil

2007 Calgary (Papers presentation)

PCIC-2007-37
NON-ELECTRICAL EQUIPMENT FOR POTENTIALLY EXPLOSIVE ATMOSPHERES
Peter Thurnherr - Thuba AG, Switzerland
Gerhard Schwarz - Cooper Crouse-Hinds GmbH, Germany
Heribert Oberhem - Bayer Industry Services, Germany

PCIC - 2007-38
ASYNCHRONOUS SOLID ROTORS AS HIGH-SPEED DRIVES IN THE MEGAWATT RANGE
Hartmut Walter - Siemens AG, Germany
Axel Möhle - Siemens AG, Germany
Maria Bade - Siemens AG, Germany

PCIC - 2007-39
LARGE MOTORS TO IEC ZONE 2 AND NEX/CEC DIVISON 2 - ARE THEY THE SAME?
Bharat Mistry - GE Industrial Systems, Canada
Travis Griffith - GE Oil & Gas, USA

2008 Cincinatti (Papers presentation)

PCIC – 2008–37
PURGED & PRESSURIZED MOTORS MADE TO IEC/NEC/CEC ZONE 1 (EX P) & TO NEC/CEC DIVISION 1 (TYPE X): ARE THEY THE SAME?
Bharat Mistry - GE Consumer & Industrial, Canada
William Lawrence - FM Approvals LLC, USA

PCIC – 2008–38
A COMPARISON OF INTERNATIONAL WIRING AND GROUNDING SYSTEMS WITH NORTH AMERICAN METHODS
John Gardner - Appleton Electric Company, USA
Joe Alanis - Bechtel Corporation, USA
PCIC – 2008–39
ENHANCED COMMUNICATION BETWEEN FIELD DEVICES AND AUTOMATION SYSTEMS IN HAZARDOUS LOCATIONS
Andre Fritsch  - R. STAHL Schaltgeraete GmbH, Germany
Robert Seitz  - ASRC EnergyServices, USA

2009 Anaheim (Papers presentation)

PCIC – 2009–28
LOW-VOLTAGE CIRCUIT PROTECTION IN HAZARDOUS LOCATIONS - A COMPARISON OF CODES AND STANDARDS WITHIN IEC, CEC AND NEC
Wolfgang Berner  - R. STAHL Inc., USA
Juergen Poidl  - R. STAHL Schaltgeraete, Germany
Ken Martin  - Brodwell Industrial Sales, Canada
Mark Throckmorton  - Shell Global Solutions, Canada
Scott Basinger  - Eaton Corporation, Canada
Tim Driscoll  - Shell Global Solutions, Canada

PCIC-2009-29
A MULTIFUNCTION ENERGY SAVING DEVICE WITH A NOVEL POWEROFF CONTROL STRATEGY FOR BEAM PUMPING MOTORS
Luo Yingli  - North China Electric Power University, China
Cui Xueshen  - North China Electric Power University, China
Luo Yu  - North China Electric Power University, China
Wang Yilong  - Huadianzhixing Technology Development Corp, China
Zhang Deqin  - North China Electric Power University, China
Zhao Haisen  - North China Electric Power University, China

PCIC-2009-30
CT SATURATION CALCULATIONS - ARE THEY APPLICABLE IN THE MODERN WORLD? - PART IV: CT SIZING AS PER IEC STANDARDS AND THE BENEFITS OF NON CONVENTIONAL INSTRUMENT TRANSFORMERS
Pierre Bertrand  - Schneider Electric, France
Terence Hazel  - Schneider Electric, France
Michael Mendik  - ABB Inc., USA
Pascal Tantin  - EDF R&D, France

2010 San Antonio (Papers presentation in two sessions)

PCIC-2010-10
BALANCING FLEXIBLE ROTORS OF LARGE ELECTRICAL MACHINES
Martin Regener  – Siemens, Germany
Lutz Huebner  – Siemens, Germany

PCIC-2010-11
MOTOR DESIGN CONSIDERATIONS FOR MEDIUM VOLTAGE ADJUSTABLE SPEED DRIVES IN HAZARDOUS AREAS
Sami Kanerva  - ABB, Finland
Silvia Bono  - ABB, Italy
Bernhard Oberbauer  - Borealis Polyolefin, Austria
Holger Persson  - ABB, Sweden
Gerald Scheuer  - ABB, Switzerland

PCIC-2010-12
HARMONIZING VENTILATION REQUIREMENTS FOR INDOOR LIGHTER THAN AIR HAZARDOUS ATMOSPHERES
Troy Rains  - Fornax Consulting, Canada
Bipin Satavalekar  - Worley Parsons, Canada
PCIC-2010-31
ACTIVE MAGNETIC BEARING SYSTEMS WITH STANDARD DRIVE TECHNOLOGY FOR LARGE TURBOMACHINES
Hartmut Walter - Siemens, Germany
Joachim Denk - Siemens, Germany
Dietmar Stoiber - Siemens, Germany

PCIC-2010-32
IEC 61850 CAPABILITIES APPLIED TO OIL AND GAS INDUSTRY
Mohammad Aurangzeb - Areva, USA
Bruno Andre - Areva, France
Luc Hossenlopp - Areva, France

PCIC-2010-33
INTERNATIONAL INSTALLATION METHODS BASED ON NEC AND IEC STANDARDS
Gerhard Schwarz - Cooper Crouse-Hinds, Germany
Peter Thurnherr - Thuba, Swiss
Heribert Oberhem - Currenta, Germany
Brian Keane - Cooper Crouse-Hinds, Canada

2011 Toronto (Papers presentation in two sessions)

PCIC-2011-22
APPLYING IEC 60909, SHORT-CIRCUIT CURRENT CALCULATIONS
David Sweeting - Sweeting Consulting, Australia

PCIC-2011-23
THE POWER OF IEC61850 FOR BUS TRANSFER AND LOAD SHEDDING APPLICATIONS
Lubomir Sevov - GE Digital Energy – Multilin, Canada
Tony Zhao - Powell Industries, USA
Ilia Voloh - GE Digital Energy – Multilin, Canada

PCIC-2011-24
CLASSIFICATION OF HAZARDOUS AREAS PRODUCED BY MAINTENANCE INTERVENTIONS ON N.G. DISTRIBUTION NETWORKS AND IN PRESENCE OF OPEN SURFACE OF FLAMMABLE LIQUID
Riccardo Tommasini - Politecnico di Torino, Italy
Enrico Pons - Politecnico di Torino, Italy

PCIC-2011-37
INTERFACES BETWEEN MV AND LV ASSEMBLIES AND POWER GENERATION FACILITIES IN PETROCHEMICAL PLANTS – A BRAZILIAN EXPERIENCE
Luiz Felipe O. Costa - Eaton, Brasil
Rogerio C. Barros - Eaton, Brasil

PCIC-2011-38
HIGH EFFICIENCY HEATING METHOD FOR SUBSEA PIPELINES HEATING
Philippe Angays - Technip, France

PCIC-2011-39
THE INFLUENCE OF OFFSHORE AND SHIPBOARD CABLES STANDARDIZATION ON PLATFORM CONSTRUCTION GUIDELINES AND LOCAL MARKET
Thiago Trezza Borges - Petrobras, Brasil
Waldir de Melo Mota Junior - Petrobras, Brasil
Michael da Fonseca Pinheiro - Petrobras, Brasil
2012 New Orleans (Papers presentation in two sessions)

PCIC-2012-10
GLOBAL COMPLIANCE OF ROOMS IN HAZARDOUS AREAS
John Paul De Beer - Expo Technologies

PCIC-2012-11
POWER MANAGEMENT SYSTEM IN AN INDUSTRIAL PLANT
Fernando Pacheco - Methanex Chile
Daniele Pescosolido - Schneider Electric
Hossam Refaat - Emethanex

PCIC-2012-12
IEEE STD 515-2011 ELECTRICAL RESISTANCE HEAT TRACING - THE NEXT STEP IN HARMONIZATION
Rich Hulett - Thermon Manufacturing
David (Dusty) Brown - Emerson Industrial Automation

PCIC-2012-46
VIBRATION & ROTOR DYNAMICS CONSIDERATIONS OF LARGE HIGH-SPEED MOTORS DRIVING COMPRESSORS IN OIL & GAS INDUSTRY
Sumit Singhal - Siemens AG

PCIC-2012-47
EXTENDING MOTOR LIFE WITH UPDATED THERMAL MODEL OVERLOAD PROTECTION
Daniel L. Ransom - Basler Electric Company
Randy Hamilton - Basler Electric Company

PCIC-2012-48
TESTING LARGE ASDS
Daniele Buzzini - ABB SpA
Maurizio Zago - ABB SpA

2013 Chicago (Papers presentation in two sessions)

PCIC-2013-06
DIFFERENCES AND SIMILARITIES BETWEEN ANSI AND IEC CULTURES FOR MV ASSEMBLIES – THE BRAZILIAN EXPERIENCE
Luiz Felipe O. Costa - Eaton Corporation
Estellito Rangel, Jr. - Petrobras
Jose M de Carvalho Fo.- UNIFEI-GEQEE
Rogério C. Barros - Eaton Corporation

PCIC-2013-07
AREA CLASSIFICATION FOR EXPLOSIVE ATMOSPHERES: COMPARISON BETWEEN EUROPEAN AND NORTH AMERICAN APPROACHES
Riccardo Tommasini - Politecnico di Torino
Federica Palamara - Politecnico di Torino
Enrico Pons - Politecnico di Torino

PCIC-2013-08
ELECTRICAL EQUIPMENT IN COLD WEATHER APPLICATIONS
Brian Keane - Cooper Crouse-Hinds
Gerhard Schwartz - Cooper Crouse-Hinds
Peter Thunherr - Thuba Ltd
PCIC-2013-42
CONCEPT, DESIGN AND TESTING OF 12 MW 9500 RPM INDUCTION MOTOR WITH OIL FILM BEARINGS FOR PIPELINE APPLICATIONS IN NORTH AMERICA
Sumit Singhal - Siemens
Hartmut Walter - Siemens
Travis Tyler - Williams Gas Pipeline

PCIC-2013-43
EVALUATION OF MOTOR DYNAMIC RESPONSE BY FORCED VIBRATION ANALYSIS
Rafael Fialho - GE Motors
Cornelis Filho - GE Motors
Suresh Pinapati - GE Motors

PCIC-2013-44
MACHINE VIBRATION AND DIAGNOSTICS: THE WORLD OF ISO
Horst Kuemmlee - Siemens AG
Thomas Gross - DIN – Deutches Institut fuer Normung
Josef Kolerus - National Instruments Germany

2014 San Francisco (Papers presentation in two sessions)

PCIC-2014-25
INFLUENCING FACTORS ON MOTOR VIBRATION & ROTOR CRITICAL SPEED IN DESIGN, TEST AND FIELD APPLICATIONS
Raj Mistry - Siemens Industry, Inc.
Bill Finley - Siemens Industry, Inc.
Scott Kreitzer - Siemens Industry, Inc.
Ryan Queen - Siemens Industry, Inc.

PCIC-2014-26
SYSTEM ANALYSIS OF COMPONENT OUTAGE IN ELECTRICAL LNG PLANT WITH VOLTAGE SOURCE INVERTERS
Toshiyuki Fujii - Mitsubishi Electric Corporation
Hiroyuki Masuda - TMEIC
Yoshiihiro Ogashi - TMEIC
Takeshi Tachibana - TMEIC
Masahiko Tsukakoshi - TMEIC

PCIC-2014-27
TEN YEARS HIGH SPEED MOTORS WITH MASSIVE SHAFT – EXPERIENCE AND OUTLOOK
Hartmut Walter - Yaskawa-Siemens A&D
Horst Kuemmlee - Siemens AG
Axel Moehle - Siemens AG

PCIC-2014-40
IEC 60079-14 - ELECTRICAL INSTALLATIONS DESIGN, SELECTION AND ERECTION
Brian Keane - Eaton’s Cooper Crouse Hinds
Gerhard Schwarz - GSA Consulting
Peter Thurnherr - thuba Ltd

PCIC-2014-41
AREA CLASSIFICATION IS NOT A COPY AND PASTE PROCESS
Estellito Rangel Junior - Petrobras
Aurélio Moreira Luiz - Petrobras
Hilton Leão de P. M. Filho - Petrobras
PCIC-2014-42
CASE STUDY: SIMULTANEOUS OPTIMIZATION OF ELECTRICAL GRID STABILITY AND STEAM PRODUCTION
Scott Manson - Schweitzer Engineering Laboratories, Inc.
Matt Checksfield - Powerplan Engineers Pty Ltd.
Peter Duffield - Rio Tinto
Abdel-Rahman Khatib - Schweitzer Engineering Laboratories, Inc