

VOLUME **28** ***Advances in  
Cryogenic Engineering***  
**Materials**

R. P. REED AND A. F. CLARK, Editors

An INTERNATIONAL CRYOGENIC MATERIALS CONFERENCE Publication

PLENUM PRESS

# Advances In Cryogenic Engineering Volume

**K. D. Timmerhaus**



## **Advances In Cryogenic Engineering Volume :**

**Advances in Cryogenic Engineering** Peter Kittel, 1998-09-30 The Oregon Convention Center Portland Oregon was the venue for the 1997 Cryogenic Engineering Conference The meeting was held jointly with the International Cryogenic Materials Conference John Barclay of the University of Victoria and David Smathers of Cabot Performance Materials were conference chairmen Portland is the home of Northwest Natural Gas a pioneer in the use of liquid natural gas and Portland State University where cryogenic research has long been conducted The program consisted of 350 CEC papers considerable more than CEC 95 This was the largest number of papers ever submitted to the CEC Of these 263 papers are published here in Volume 43 of *Advances in Cryogenic Engineering* Once again the volume is published in two books CEC PAPER REVIEW PROCESS Since 1954 *Advances in Cryogenic Engineering* has been the archival publication of papers presented at the biennial CEC ICMC conferences The publication includes invited unsolicited and government sponsored research papers in the research areas of cryogenic engineering and applications All of the papers published must 1 be presented at the conference 2 pass the peer review process and 3 report previously unpublished theoretical studies reviews or advances in cryogenic engineering

*Advances in Cryogenic Engineering* K. Timmerhaus, 2012-12-06 In late 1877 Louis Cailletete in France and Raoul Pictet in Switzerland independently succeeded in liquefying oxygen thereby proving a hypothesis set forth by Antoine Lavoisier nearly 100 years earlier The theme of the 1977 Cryogenic Engineering Conference Cryogenics A Century of Progress A Challenge for the Future properly commemorated this accomplishment by reviewing some of the noteworthy advances since that time and outlining many advances still to come Both Volumes 23 and 24 of this series provide a good account of the many contributions that were presented at this conference The 1977 Cryogenic Engineering Conference was appropriately again held in Boulder Colorado where the first Cryogenic Engineering Conference was initiated 23 years ago by the late Russell B Scott then Chief of the Cryogenic Engineering Laboratory of the National Bureau of Standards The Cryogenic Engineering Conference Board is extremely grateful to members of the National Bureau of Standards and the University of Colorado for serving as hosts for this meeting of cryogenic specialists from all over the world The Cryogenic Engineering Conference is again pleased to have had the International Cryogenic Materials Conference co host this biennial meeting for the second time in succession This joint effort again has permitted an in depth coverage of research on technical materials in areas currently receiving primary attention by the cryogenic engineering community The Proceedings of the International Cryogenic Materials Conference will be published as Volume 24 of the *Advances in Cryogenic Engineering*

*Advances in Cryogenic Engineering* Quan-Sheng Shu, Peter Kittel, David Glaister, John Hull, Bill Burt, Al Zeller, John Zbasnik, Vitalij Pecharsky, Steven W. Van Sciver, Ray Radebaugh, Michael DiPirro, J. Patrick Kelley, Klaus D. Timmerhaus, Jay Theilacker, Charles Reece, 2000-10-31 In recent years the technology of cryogenic comminution has been widely applied in the field of chemical engineering food making medicine production and particularly in recycling of waste

materials Because of the increasing pollution of waste tires and the shortage of raw rubber resource the recycling process for waste rubber products has become important and commercially viable This technology has shown a great number of advantages such as causing no environmental pollution requiring low energy consumption and producing high quality products Hence the normal crusher which was used to reclaim materials such as waste tires nylon plastic and many polymer materials at atmospheric 12 temperature is being replaced by a cryogenic crusher In the cryogenic crusher the property of the milled material is usually very sensitive to temperature change When a crusher is in operation it will generate a great deal of heat that causes the material temperature increased Once the temperature increases over the vitrification temperature the material property will change and lose the brittle behavior causing the energy consumption to rise sharply Consequently the comminution process cannot be continued Therefore it is believed that the cryogenic crusher is the most critical component in the cryogenic comminution system The research on the temperature increase and energy consumption in the cryogenic crusher is not only to reduce the energy consumption of the crusher but also to reduce the energy consumption of the cryogenic system

**Advances in Cryogenic Engineering Materials** U. Balachandran, Kathleen Amm, David Evans, Eric Gregory, Mike Osofsky, Sastry Pamidi, Chan Park, Judy Wu, Mike Sumption, 2008-04-04 All papers have been peer reviewed The 2007 joint Cryogenic Engineering Conference and International Cryogenic Materials Conference CEC ICMC was held at the Chattanooga Convention Center in Chattanooga TN from July 16th through 20th Nearly 700 attendees from 28 countries came together to enjoy the joint technical programs industrial exhibit and special events There were 382 papers presented in plenary oral and poster sessions Papers in the ICMC part of the conference covered the physical and mechanical properties of metals alloys at cryogenic temperatures insulation materials used in magnets for large scale applications recent developments in the conventional low temperature superconductors YBCO coated conductors Bi based superconductors and MgB<sub>2</sub> conductors Conductor stability AC losses as well as superconductor applications were also covered at this conference ICMC papers selected after peer review process are published by AIP as Conference Proceedings Volume 986 Readers will get the latest information on materials and their properties used in cryogenic temperatures in this volume

**Advances in Cryogenic Engineering** Klaus D. Timmerhaus, R. W. Fast, H. A. Snyder, 1980 *Advances in Cryogenic Engineering* K. D. Timmerhaus, 2013-03-08 Support from the National Science Foundation has made it possible for the tenth annual Cryogenic Engineering Conference hosted by the University of Pennsylvania and capably directed by K R Atkins and his staff to emphasize the major international advances in cryogenic engineering This specific emphasis resulted in a final program of over one hundred papers and has made it necessary to publish the proceedings of the conference in two volumes The first volume will be similar in nature to previous volumes in this series while the second volume will feature the international aspect of the conference program The latter volume because of this distinction will be entitled International Advances in Cryogenic Engineering As in the past the Cryogenic Engineering Conference Committee gratefully acknow

ledges the assistance of all the dedicated workers in the cryogenic field who have contributed their time in reviewing the preliminary papers for the program and the final manuscripts for this volume Since the list of participants in this thankless task numbers well over one hundred any attempt to acknowledge their individual contributions in the limited space available would be practically impossible     Advances in Cryogenic Engineering Materials U. Balu Balachandran, Donald G. Gubser, K. Ted Hartwig, Victoria A. Bardos, 2012-12-06 The 1999 Joint Cryogenic Engineering Conference CEC and International Cryogenic Materials Conference ICMC were held in Montreal Quebec Canada from July 12th to July 16th The joint conference theme was Cryogenics into the Next Millennium The total conference attendance was 797 with participation from 28 countries As with previous joint CEC and ICMC Conferences the participants were able to benefit from the joint conference s coverage of cryogenic applications and materials and their interactions The conference format of plenary oral and poster presentations and an extensive commercial exhibit the largest in CEC ICMC history aimed to promote this synergy The addition of short courses workshops and a discussion meeting enabled participants to focus on some of their specialties The technical tour organized by Suzanne Gendron was of Hydro Quebec s research institute laboratories near Montreal In keeping with the conference venue the entertainment theme was Jazz culminating in the performance of Vic Vogel and his Jazz Big Band at the conference banquet This 1999 ICMC Conference was chaired by Julian Cave of IREQ Institut de recherche d Hydro Quebec and the Program Chair and Vice Chair were Michael Green of the Lawrence Berkeley National Laboratory and Balu Balachandran of the Argonne National Laboratory respectively We especially appreciate the contributions of both the CEC and ICMC Boards and the conference managers Centennial Conferences under the supervision of Paula Pair and Kim Bass in making this conference a success     Advances in Cryogenic Engineering Klaus D. Timmerhaus, 1981     ADVANCES IN CRYOGENIC ENGINEERING VOLUME 12- PROCEEDINGS OF THE 1966 CRYOGENIC ENGINEERING CONFERENCE. ,     **Advances in Cryogenic Engineering** K. Timmerhaus, 2012-10-12 The First International Cryogenic Materials Conference ICMC provided a new forum for the presentation of low temperature materials research The conference held in conjunction with the 1975 Cryogenic Engineering Conference provided materials research personnel with excellent exposure to current developments in the cryogenics field and beneficial interactions with designers of cryogenic systems Because of the large response to a late call for papers the enthusiasm and encouragement at the meeting and the wide spectrum and high quality of papers the Second International Cryogenic Materials Conference is being planned along with the 1977 Cryogenic Engineering Conference for Boulder Colorado in the summer of 1977 The success of the First International Cryogenic Materials Conference was certainly in large measure due to the excellent hospitality of our Canadian hosts the Royal Military College of Canada and Queen s University in Kingston Ontario In particular the efforts of A C Leonard and his staff ensured an excellent conference and a pleasant and memorable visit to Canada The Cryogenic Engineering Conference Board was both generous and skillful in helping to initiate this new conference and their guidance

and acceptance is gratefully acknowledged The Cryogenic Engineering Conference program chairman M J Hiza greatly facilitated the interaction for the two conferences and provided valuable assistance in generating a workable program The proceedings of the 1975 Cryogenic Engineering Conference are published as Volume 21 of the Advances in Cryogenic Engineering and include many papers indicating innovative use of new cryogenic materials properties data **Advances in Cryogenic Engineering Materials** A. F. Clark, 2012-12-06 The Third International Cryogenic Materials Conference ICMC was held in Madison Wisconsin in conjunction with the Cryogenic Engineering Conference CEC in August 1979 The University of Wisconsin hosted the two conferences in an excellent manner and deserves special recognition and praise The synergism produced by conducting the two conferences simultaneously continues to be strong Materials remain a demanding challenge and in some cases an obstacle to effective application of cryogenic technology The association of materials specialists and cryogenic engineers every other year centers their attention on the most needed areas of research The present ICMC Board met during the conference and elected two new members E W Collings U S and D Evans England The board voted to conduct two smaller special topic conferences in 1980 These are Filamentary A15 Superconductors which was held at Brookhaven National Laboratories Upton New York in May 1980 and Fundamentals of Nonmetallics and Composites at Low Temperatures held in Geneva Switzerland in August 1980 The 1981 CEC ICMC will be held August 10 through 14 in San Diego California **Advances in Cryogenic Engineering** K. D. Timmerhaus, 2013-12-20 1971 marked the first year since 1956 that the annual Cryogenic Engineering Conference was not held Instead the Cryogenic Engineering Conference gave its full support to the XIII International Congress of Refrigeration by working with Commissions I and II of the International Institute of Refrigeration to organize the cryogenic sessions for these two commissions All of the papers presented at the International Congress of Refrigeration will be published by the IIR as part of the proceedings of that meeting Even though no Cryogenic Engineering Conference was held in 1971 it became quite evident to the Conference Board that there were sufficient advances in cryogenic engineering to warrant the publication of Volume 17 of the Advances in Cryogenic Engineering Volume 17 presents the advances in this important field by bringing together in one volume some of the significant papers that have been presented at various technical meetings across the country during the latter half of 1970 and the first part of 1971 In addition several authoritative review papers have been prepared by invitation of the Cryogenic Engineering Conference Board Advances in Cryogenic Engineering K.D. Timmerhaus, R.W. Fast, A.F. Clark, R.P. Reed, 2012-12-06 The 1985 joint Cryogenic Engineering International Cryogenic Materials Conference was held on the campus of the Massachusetts Institute of Technology Cambridge Massachusetts About 350 papers were presented at the joint conference on a wide variety of topics in cryogenic science and engineering This volume of Advances in cryogenic Engineering the thirty first in the series which began in 1954 contains most of the papers which were presented at the 1985 Cryogenic Engineering Conference Each paper was rigorously peer reviewed to maintain the international reputation of

Advances as the premier archival publication in the field of cryoscience engineering and technology All the papers published in Volume 31 contain an abstract A copy of the book will be sent to all maj or abstracting services which should improve retrieval of the information contained in the published papers I would like to thank the authors and those who served as reviewers I especially appreciate the assistance of my colleague M E Stone who edited some of the papers for this volume Terry Gutierrez was invaluable in preparing the manuscripts for publication and I thank her xvii DEDICATION Dr Samuel C Collins Professor Emeritus of the Massachusetts Institute of Technology internationally known as the father of practical helium liquefiers and founder of the MIT Cryogenic Engineering Laboratory died on June 19 1984 in George Washington University Hospital Washington DC Advances in Cryogenic Engineering Materials U. Balu Balachandran, Donald G. Gubser, K. Ted Hartwig, Victoria A. Bardos, 2000-06-30 The 1999 Joint Cryogenic Engineering Conference CEC and International Cryogenic Materials Conference ICMC were held in Montreal Quebec Canada from July 12th to July 16th The joint conference theme was Cryogenics into the Next Millennium The total conference attendance was 797 with participation from 28 countries As with previous joint CEC and ICMC Conferences the participants were able to benefit from the joint conference s coverage of cryogenic applications and materials and their interactions The conference format of plenary oral and poster presentations and an extensive commercial exhibit the largest in CEC ICMC history aimed to promote this synergy The addition of short courses workshops and a discussion meeting enabled participants to focus on some of their specialties The technical tour organized by Suzanne Gendron was of Hydro Quebec s research institute laboratories near Montreal In keeping with the conference venue the entertainment theme was Jazz culminating in the performance of Vic Vogel and his Jazz Big Band at the conference banquet This 1999 ICMC Conference was chaired by Julian Cave of IREQ Institut de recherche d Hydro Quebec and the Program Chair and Vice Chair were Michael Green of the Lawrence Berkeley National Laboratory and Balu Balachandran of the Argonne National Laboratory respectively We especially appreciate the contributions of both the CEC and ICMC Boards and the conference managers Centennial Conferences under the supervision of Paula Pair and Kim Bass in making this conference a success **Advances in Cryogenic Engineering Materials** Richard Reed, F.R. Fickett, Leonard T. Summers, M. Stieg, 2013-07-03 Proceedings of the Tenth International Cryogenic Materials Conference ICMC held in Albuquerque New Mexico July 12 16 1993 *Advances in Cryogenic Engineering* K. D. Timmerhaus, 1964 **Advances in cryogenic engineering, vol. 33** R. W. Fast, 1988 **Advances in Cryogenic Engineering Vol. 1** , 1960 **Advances in Cryogenic Engineering** R. W. Fast, 1985-06-15 Colorado Springs Colorado spectacularly located at the foot of Pike s Peak was the site of the joint 1983 Cryogenic Engineering Conference International Cryogenic Materials Conference Over 300 papers were presented at the two conferences on a variety of cryogenic science and engineering topics Volume 29 of Advances in Cryogenic Engineering contains 116 of the papers presented at the 1983 Cryogenic Engineering Conference Each paper was comprehensively peer reviewed to maintain the

international reputation of the series as the premier archival medium in the field of cryotechnology I would like to thank both authors and reviewers for their assistance in the preparation of this volume R W Fast Editor xvii DEDICATION The cryogenic engineering community was saddened to learn of the death of A Clark Leonard of the Royal Military College of Canada Kingston Ontario on November 24 1983 Professor Leonard was born in Prince Albert Saskatchewan Canada in February 1922 Following service in the RCAF during World War II he received his B M E degree at the University of Saskatchewan While serving with the Canadian forces in Korea he was awarded membership in the Order of the British Empire He received his M S and Ph D degrees in Mechanical Engineering at the University of Michigan Advances in Cryogenic Engineering Materials A. F. Clark, 2013-11-21 The Fifth International Cryogenic Materials Conference ICMC was held in Colorado Springs Colorado in collaboration with the Cryogenic Engineering Conference CEC on August 15 19 1983 The growth and success of the joint conferences is a result of their complementary program and close cooperation Materials remain a challenge in the application of cryogenic technology and sometimes as in the case of superconductors are the driving force for the technology The association of materials and cryogenic engineers increases their awareness of recent research in their respective fields and influences the course of future research and applications Many contributed to the success of the 1983 conference E W Collings of Battelle Memorial Institute was the ICMC Conference Chairman M Suenaga of Brookhaven National Laboratories the ICMC Program Chairman and L L Sparks of the National Bureau of Standards the ICMC Local Arrangements Chairman J M Wells and A I Braginski of Westinghouse R D Center G Hartwig of the Nuclear Research Center of Karlsruhe and K T Hartwig of the University of Wisconsin assisted the Program Chairman in metallic metals superconducting materials nonmetallic materials and cryo physical properties respectively Excellent conference management was provided by Centennial Conferences We especially thank M Stieg who coordinated the preparation of the papers for this volume The CEC Board especially their conference chairman C D Henning of Lawrence Livermore National Laboratories contributed very substantially to conference planning and implementation



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