

# Ebook free Proceedings of the symposium on detector research and development for the superconducting super collider october 15 18 1990 fort worth texas .pdf

a detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the united states journal of american history starting in the 1950s us physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades in an effort to maintain their hegemony and track down the elusive higgs boson they convinced president reagan and congress to support construction of the multibillion dollar superconducting super collider project in texas the largest basic science project ever attempted but after the cold war ended and the estimated ssc cost surpassed ten billion dollars congress terminated the project in october 1993 drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved tunnel visions tells the riveting story of the aborted ssc project the authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions in doing so they ask whether big science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the ssc s cancelation by congress tunnel visions is a true techno thriller burton richter winner of the nobel prize in physics most good science stories are tales of discovery and success but failure can be just as riveting here two historians and an archivist describe the greatest particle physics experiment that never was scientific american over the last three years a significant program of detector technology research and development for high luminosity high energy hadron hadron colliders has been underway in the united states japan and europe in as much as the first formal steps have been undertaken to initiate the experimental program at the superconducting super collider ssc it is appropriate to assess in detail the status of this r d effort results and plans for advanced technology r d for particle physics detectors appropriate for ssc experiments are presented specific topics include calorimetry particle tracking and identification techniques vertex detection magnets front end electronics data acquisition electronics techniques in triggering data transmission data analysis and simulation software studies on radiation damage to materials and electronics distributed to some depository libraries in microfiche distributed to some depository libraries in microfiche examines the types functions and basic principles of particle accelerators both linear and circular and their application in the search for the basic building blocks of nature iissc 89 was a tremendous success a total of 635 people attended this educational forum which was dedicated to further the understanding of the design construction and operation of the superconducting supercollider ssc a total of 110 presentations and addresses were given the topics discussed covered all aspects of the ssc including magnet technology cryogenics conventional facilities technical systems detectors related accelerator technology superconducting wire cable approximately 38 of the presentations addressed superconducting magnet technology 16 were devoted to detector technology 10 addressed superconducting wire cable and the balance was equally split between the remaining topics a special award was presented to professor m tigner for his meritorious contribution to the superconducting supercollider ssc the award was presented on behalf of the iissc board of directors keynote speakers included gerald bachy cern joe barton representative from texas 6th district ed bingler exec director texas national research laboratory commission james decker deputy director office of energy research doe helen edwards fermi national accelerator laboratory m g d gilchriese ssc central design group robert hunter director office of energy research doe leon lederman director fermi national accelerator laboratory roy schwitters director ssc laboratory alvin trivelpiece director oak ridge national laboratory gus voss desy highlights of the symposium included two panel sessions the first panel discussed the growing role of industry in accelerator technology the second panel addressed the congressional perspective on sse industrial panel congressional panel j r faulkner varian continental joe barton r texas 6th dist the fourth annual international industrial symposium on the super collider rrssc held march 4 6 1992 in new orleans was a great success present at this year s conference were 839 attendees representing 24 universities and colleges 34 states 13 countries 17 national laboratories 11 research centers many government entities at the local state and federal levels and 235 businesses and companies this year s symposium also included 101 exhibits by 78 organizations in all categories this year s participation exceeded the totals of previous years and is an example of the growing support for the superconducting super collider program this year s program had many highlights one of the best was a message from president george bush read by linda stuntz acting deputy secretary department of energy president bush said that each of us can be proud of the role that you are playing in building the collider and in setting the stage for a new era of research and discovery in high energy physics the 1992 iissc s theme was ssc discovering the future this theme was chosen in commemoration of the sooth anniversary of columbus s voyage of discovery and the relationship of the ssc with discovery this theme was articulated by all the speakers in the opening plenary session progress on the program was also very evident at this year s symposium in the pictorial session 66 photographs from all over the world were

displayed to highlight progress in making the ssc a reality

*The Superconducting Super Collider Project* 1993 a detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the united states journal of american history starting in the 1950s us physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades in an effort to maintain their hegemony and track down the elusive higgs boson they convinced president reagan and congress to support construction of the multibillion dollar superconducting super collider project in texas the largest basic science project ever attempted but after the cold war ended and the estimated ssc cost surpassed ten billion dollars congress terminated the project in october 1993 drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved tunnel visions tells the riveting story of the aborted ssc project the authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions in doing so they ask whether big science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the ssc s cancelation by congress tunnel visions is a true techno thriller burton richter winner of the nobel prize in physics most good science stories are tales of discovery and success but failure can be just as riveting here two historians and an archivist describe the greatest particle physics experiment that never was scientific american

**Tunnel Visions** 2015-11-20 over the last three years a significant program of detector technology research and development for high luminosity high energy hadron hadron colliders has been underway in the united states japan and europe in as much as the first formal steps have been undertaken to initiate the experimental program at the superconducting super collider ssc it is appropriate to assess in detail the status of this r d effort results and plans for advanced technology r d for particle physics detectors appropriate for ssc experiments are presented specific topics include calorimetry particle tracking and identification techniques vertex detection magnets front end electronics data acquisition electronics techniques in triggering data transmission data analysis and simulation software studies on radiation damage to materials and electronics

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**Risks and Benefits of Building the Superconducting Super Collider** 1988 the fourth annual international industrial symposium on the super collider rrssc held march 4 6 1992 in new orleans was a great success present at this year s conference were 839 attendees representing 24 universities and colleges 34 states 13 countries 17 national laboratories 11 research centers many government entities at the local state and federal levels and 235 businesses and companies this year s symposium also included 101 exhibits by 78 organizations in all categories this year s participation exceeded the totals of previous years and is an example of the growing support for the superconducting super collider program this year s program had many highlights one of the best was a message from president george bush read by linda stuntz acting deputy secretary department of energy president bush said that each of us can be proud of the role that you are playing in building the collider and in setting the stage for a new era of research and discovery in high energy physics the 1992 iissc s theme was ssc discovering the future this theme was chosen in commemoration of the sooth anniversary of columbus s voyage of discovery and the relationship of the ssc with discovery this theme was articulated by all the speakers in the opening plenary session progress on the program was also very evident at this year s symposium in the

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**To the Heart of Matter** 1989

*The Status of the Superconducting Super Collider* 1993

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**Importance and Status of the Superconducting Super Collider** 1992

**Termination of the Superconducting Super Collider Project** 1994

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*International Participation in the Superconducting Super Collider (SSC)* 1988

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Particle Accelerators 1989

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*Status and Plans of the United States and CERN High Energy Physics Programs and the Superconducting Super Collider (SSC)* 1986

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