

SCIENCE NEWS

Science Service, Washington, D. C.

FUTURE OF THE SCIENCE OF PHYSICS

By ROBERT D. PORTER

LASTING the practical advances made possible by the physical discoveries of the x-ray, radioactivity and the electron in the recent past, Dr. Karl T. Compton, president of Massachusetts Institute of Technology, predicted that by the end of the twentieth century the still newer discoveries of research on atomic nuclei may yield comparable advances. Dr. Compton spoke on "What's Ahead in Physics" at the dinner session of the five societies of physics meeting in New York on October 26 to celebrate the formation five years ago of the American Institute of Physics.

"During the past third of a century the discoveries of the electron, the x-ray and radioactivity have together brought about the greatest advances which have ever been made in fundamental knowledge of the physical world and in practical applications of this knowledge to human welfare. These developments will undoubtedly continue. It may very well be that the new fields of knowledge disclosed through exploration of the atomic nucleus may bring about a new set of developments of corresponding importance before this century comes to a close. It is primarily in the groups represented by these five member societies of the American Institute of Physics that those things which are next in physics, some of which we can anticipate and some of which are certainly quite unknown to us, will come to pass."

Dr. Compton pointed out that in predicting the future one can depend only on the achievements of the past and a knowledge of present trends. Of the past he said:

"In the last fifty years physics has exerted a more powerful beneficial influence on the intellectual, economic and social life of the world than has been exerted in a comparable time by any other agency in history. Its influence has far exceeded that of wars, political alignments or social theories."

"This is a striking statement which, if true, discloses an equally striking absurdity, for the public is continually excited about this or that issue of politics, tariffs, codes or international relationships which are of far less human import than the past and future accomplishments in that body of science whose American representatives are meeting here to-day, practically unknown and unnamed."

As justification of his claim for the past usefulness of physics, Dr. Compton showed that all the many types of engineering, civil, mechanical, radio, motion picture, aeronautical, all spring from the mother science of physics. Moreover, other scientists—astronomers, meteorologists, optometrists and others dealing with instruments—are also basically physicists. The contributions in five decades of these men bring glory to the science of physics and make its value outweigh war and politics in its effects on civilization.

Scientific research is needed on a national scale as much as on the smaller industrial scale, Dr. Compton declared,

deplored the shortsightedness of research in the Federal Government agencies caused by lack of appropriations. He said:

"Irrespective of our judgment regarding the justification for large government expenditures to stimulate industry, I think that there would be agreement on the following principle by practically all scientists, engineers and progressive industrialists:

"In national, just as in industrial, expenditures, some substantial portion should be devoted to the attempt to improve the products, processes and methods of the future. Huge expenditures for construction and production only, with no provision for research and development aimed at better construction and new production in the future, are woefully short-sighted. Public policy and future industrial welfare require foundations for the future as well as production of the present."

Dr. Compton suggested that some of the most promising future developments in the usefulness of physics lie in the field of medicine. Medical application of x-rays and radium rays have already aided the treatment of such diseases as cancer. Neutrons, obtained in experiments on nuclear transformations, are now likewise found to have a differential effect on normal and malignant tissues. Moreover, artificial radioactive materials like radioactive sodium offer interesting possibilities for cancer treatment without dangerous after effects.

Use of high-frequency radiation to create artificial fever is another application of physics in medicine which is just now showing its value. There is some temperature above which no known organism can live. Recently it has been found that this temperature is lower for the organisms causing distemper in dogs than it is for the dogs themselves. Raising the temperature of the dogs above the lethal temperature for the distemper organisms frees the animal from the disease. In a similar way syphilis has been cured in monkeys, although in man the two temperatures are so close together that it is difficult to effect a possible cure by this method.

"Very recently, however, an improved technique has been developed which offers great promise for many applications and which consists of raising bodily temperature locally by means of electromagnetically produced high frequency electric currents within the body in the region to be treated while the temperature of the body as a whole is kept within the safe limit by special cooling."

THE JOSIAH WILLARD GIBBS LECTURE

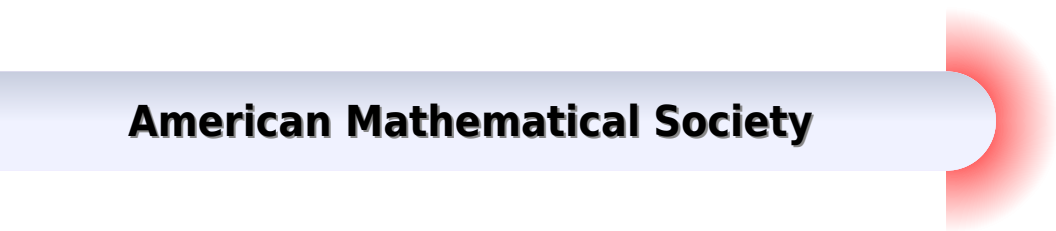
By ROBERT D. PORTER

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MANY of the problems of astronomy are so big that they must be mentally simplified before astronomers can even start to try to solve them, declared Dr. Henry Norris Russell, professor of astronomy at Princeton University, at the closing sessions of the five founder societies of the American Institute of Physics. Professor Russell de-

The 1991 Josiah Willard Gibbs Lecture The Mysteries Of Space

American Mathematical Society



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The Abel Prize Helge Holden,Ragni Piene,2009-12-01 The book presents the winners of the first five Abel Prizes in mathematics 2003 Jean Pierre Serre 2004 Sir Michael Atiyah and Isadore Singer 2005 Peter D Lax 2006 Lennart Carleson and 2007 S R Srinivasa Varadhan Each laureate provides an autobiography or an interview a curriculum vitae and a complete bibliography This is complemented by a scholarly description of their work written by leading experts in the field and by a brief history of the Abel Prize Interviews with the laureates can be found at [http extras springer com](http://extras.springer.com) **The Interface of Knots and Physics** Louis H. Kauffman,1996 This text is the result of an AMS Short Course on Knots and Physics that was held in San Francisco in January 1994 The authors use ideas and methods of mathematical physics to extract topological information about knots and manifolds The book features a basic introduction to knot polynomials in relation to statistical link invariants as well as concise introductions to topological quantum field theories and to the role of knot theory in quantum gravity *Notices of the American Mathematical Society* American Mathematical Society,1990 Mathematical Reviews ,1993 Geometries Of Nature, Living Systems And Human Cognition: New Interactions Of Mathematics With Natural Sciences And Humanities Luciano Boi,2005-11-02 The collection of papers forming this volume is intended to provide a deeper study of some mathematical and physical subjects which are at the core of recent developments in the natural and living sciences The book explores some far reaching interfaces where mathematics theoretical physics and natural sciences seem to interact profoundly The main goal is to show that an accomplished movement of geometrisation has enabled the discovery of a great variety of amazing structures and behaviors in physical reality and in living matter The diverse group of expert mathematicians physicists and natural scientists present numerous new results and original ideas methods and techniques Both academic and interdisciplinary the book investigates a number of important connections between mathematics theoretical physics and natural sciences including biology **Subject Guide to Books in Print** ,1991

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**The 1991 Josiah Willard Gibbs Lecture The Mysteries Of Space**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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