



# **FROM FAUST TO STRANGELOVE**

**Representations of the Scientist  
in Western Literature**

**ROSLYNN D. HAYNES**

# From Faust To Strangelove Representations Of The Scientist In Western Literature

**Elizabeth Leane**



## **From Faust To Strangelove Representations Of The Scientist In Western Literature:**

*From Faust to Strangelove* Roslynn Doris Haynes, 1994 They were mad of course Or evil Or godless amoral arrogant impersonal and inhuman At best they were well intentioned but blind to the dangers of forces they barely controlled They were Faust and Frankenstein Jekyll and Moreau Caligari and Strangelove the scientists of film and fiction cultural archetypes that reflected ancient fears of tampering with the unknown or unleashing the little understood powers of nature In *From Faust to Strangelove* Roslyn Haynes offers the first detailed and comprehensive study of the image of the scientist in Western literature and film from medieval images of alchemists to present day depictions of cyberpunks and genetic engineers

*Reading Popular Physics* Elizabeth Leane, 2017-03-02 *Reading Popular Physics* is a valuable contribution to our understanding of the nature and implications of physics popularizations A literary critic trained in science Elizabeth Leane treats popular science writing as a distinct and significant genre focusing particularly on five bestselling books Stephen Hawking's *A Brief History of Time* Steven Weinberg's *The First Three Minutes* James Gleick's *Chaos* M Mitchell Waldrop's *Complexity* and Gary Zukav's *The Dancing Wu Li Masters* Leane situates her examination of the texts within the heated interdisciplinary exchanges known as the Science Wars focusing specifically on the disputed issue of the role of language in science Her use of literary analysis reveals how popular science books function as sites for disciplinary skirmishes as she uncovers the ways in which popularizers of science influence the public In addition to their explicit discussion of scientific concepts Leane argues these authors employ subtle textual strategies that encode claims about the nature and status of scientific knowledge claims that are all the more powerful because they are unacknowledged Her book will change the way these texts are read offering readers a fresh perspective on this highly visible and influential genre

**The Public Image of Chemistry** Joachim Schummer, Bernadette Bensaude-Vincent, Brigitte van Tiggelen, 2007 Stem cells have the ability to differentiate into cells that are found throughout the body This fundamental property of stem cells suggests that they can potentially be used to replace degenerative cells within the body and regenerate the functional capacity of organ systems that have deteriorated because of disease or aging This authoritative textbook provides an overview of the latest advances in the field of stem cell biology spanning topics that include nuclear reprogramming somatic cell cloning and determinants of cell fate embryonic stem cells for hematopoietic and pancreatic repair adult stem cells for cardiovascular neural renal and hepatic repair and manufacturing of stem cells for clinical use

**Oppenheimer** Charles Thorpe, 2008-10-15 *Oppenheimer* reveals its subject as both an expert working on behalf of the state and an intellectual with broad cultural and moral authority Oppenheimer played a crucial role not only in defining the task of the physicist as nuclear weaponeer but also in expounding the wider cultural meanings and moral responsibilities associated with that task The controversy over the hydrogen bomb and Oppenheimer's public fall from grace in the 1954 loyalty security hearings Thorpe argues revealed fundamental tensions at the heart of the modern technoscientific state raising questions about the responsibility scientists

should take for the technologies of death they produce Oppenheimer maps out changes in the roles of scientists and intellectuals in twentieth century America ultimately revealing transformations in Oppenheimer's persona that coincided with changing attitudes toward science in society

**BOOK JACKET**     The Art and Science of Making the New Man in Early 20th-Century Russia Yvonne Howell, Nikolai Kremmentsov, 2021-12-02 The idea that morally mentally and physically superior new men might replace the currently existing mankind has periodically seized the imagination of intellectuals leaders and reformers throughout history This volume offers a multidisciplinary investigation into how the new man was made in Russia and the early Soviet Union in the first third of the 20th century The traditional narrative of the Soviet new man as a creature forged by propaganda is challenged by the strikingly new and varied case studies presented here The book focuses on the interplay between the rapidly developing experimental life sciences such as biology medicine and psychology and countless cultural products ranging from film and fiction dolls and museum exhibits to pedagogical projects sculptures and exemplary agricultural fairs With contributions from scholars based in the United States Canada the UK Germany and Russia the picture that emerges is emphatically more complex contradictory and suggestive of strong parallels with other new man visions in Europe and elsewhere In contrast to previous interpretations that focused largely on the apparent disconnect between utopian new man rhetoric and the harsh realities of everyday life in the Soviet Union this volume brings to light the surprising historical trajectories of new man visions their often obscure origins acclaimed and forgotten champions unexpected and complicated results and mutual interrelations In short the volume is a timely examination of a recurring theme in modern history when dramatic advancements in science and technology conjoin with anxieties about the future to fuel dreams of a new and improved mankind

**Thomas Hardy's Novel Universe** Pamela Gossin, 2017-03-02 In this the first book length study of astronomy in Hardy's writing historian of science and literary scholar Pamela Gossin brings the analytical tools of both disciplines to bear as she offers unexpected and sophisticated readings of seven novels that enrich Darwinian and feminist perspectives on his work extend formalist evaluations of his achievement as a writer and provide fresh interpretations of enigmatic passages and scenes In an elegantly crafted introduction Gossin draws together the shared critical values and methods of literary studies and the history of science to articulate a hybrid model of scholarly interpretation and analysis that promotes cross disciplinary compassion and understanding within the current contention of the science culture wars She then situates Hardy's own deeply interdisciplinary knowledge of astronomy and cosmology within both literary and scientific traditions from the ancient world through the Victorian era Gossin offers insightful new assessments of *A Pair of Blue Eyes* *Far from the Madding Crowd* *The Return of the Native* *Two on a Tower* *The Woodlanders* *Tess of the D'Urbervilles* and *Jude the Obscure* arguing that Hardy's personal synthesis of ancient and modern astronomy with mythopoetic and scientific cosmologies enabled him to write as a literary cosmologist for the post Darwinian world The profound new myths that comprise Hardy's novel universe can be read as a sustained set of literary thought experiments by

which he critiques the possibilities limitations and dangers of living out the storylines that such imaginative cosmologies project for his time and ours

**The Island of Doctor Moreau** H. G. Wells, 2017 The Island of Doctor Moreau is the account of Edward Prendick an English gentleman who finds himself shipwrecked and an unwelcomed guest on the Pacific island of one Doctor Moreau There Prendick discovers Moreau is performing horrific experiments using vivisection to craft animals into human beings

**Imagenation** José Van Dijck, 1998-01-31 Genetics seems more popular then ever DNA technology not only sustains large areas of biomedicine and business but also prevails in social and legal practices and takes root in cultural products Since the late 1950s the public image of genetics metamorphosed from a suspect branch of research into a thriving well funded field of biomedicine Images and imaginations have played a crucial role in the popularization of genetic knowledge The media played up images of engineered bugs scientists promoted images of selfish genes and science fiction writers infested the imagination with stories of cloned monsters Image nation examines the role of science journalism and fiction in the popularization of genetics

**Learned Patriots** M. Alper Yalçinkaya, 2015-02-13 The nineteenth century was for many societies a period of coming to grips with the growing and seemingly unstoppable domination of the world by the Great Powers of Europe The Ottoman Empire was no exception Ottomans from all walks of life elite and non elite Muslim and non Muslim debated the reasons for what they considered to be the Ottoman decline and European ascendance One of the most popular explanations was deceptively simple science If the Ottomans would adopt the new sciences of the Europeans it was frequently argued the glory days of the empire could be revived In Learned Patriots M Alper Yal inkaya examines what it meant for nineteenth century Ottoman elites themselves to have a debate about science Yal inkaya finds that for anxious nineteenth century Ottoman politicians intellectuals and litterateurs the chief question was not about the meaning merits or dangers of science Rather what mattered were the qualities of the new men of science Would young ambitious men with scientific education be loyal to the state Were they proper members of the community Science Yal inkaya shows became a topic that could hardly be discussed without reference to identity and morality Approaching science in culture Learned Patriots contributes to the growing literature on how science travels representations and public perception of science science and religion and science and morality Additionally it will appeal to students of the intellectual history of the Middle East and Turkish politics

**Hollywood Blockbusters** David Sutton, Peter Wogan, 2020-05-15 Why do Jaws Field of Dreams The Big Lebowski and The Godfather remain strikingly popular in this age of fragmented audiences and ever faster spin cycles Hollywood Blockbusters The Anthropology of Popular Movies argues that these films continue to captivate audiences because they play upon underlying tensions and problems in American culture much like the myths that anthropologists study in non Western contexts In making this argument the authors employ and extend anthropological theories about ritual kinship gift giving power egalitarianism literacy metalinguistics stereotypes and the mysteries of the Other The results original insights into modern film classics American culture and anthropological theory will appeal to

students of Film Media Anthropology Sociology and Cultural Studies      **Before Crusoe** Penny Pritchard, 2018-12-07 Penny Pritchard is a Senior Lecturer in Eighteenth Century Literature and has taught at the University of Hertfordshire since completing her PhD in 2006 Both her doctoral thesis entitled Defoe Rhetoric and Nonconformity and MA in Eighteenth Century Studies were undertaken at the University of East Anglia Her first book *The Long Eighteenth Century Literature from 1660 to 1790* was published by York Press in 2010 and she has written extensively on Defoe and early modern religious writing in academic journals and chapter collections      *Müller's Lab* Laura Otis, 2007-04-05 Many structures in the human body are named after Johannes Muller one of the most respected anatomists and physiologists of the 19th century Muller taught many of the leading scientists of his age many of whom would go on to make trail blazing discoveries of their own Among them were Theodor Schwann who demonstrated that all animals are made of cells Hermann Helmholtz who measured the velocity of nerve impulses and Rudolf Virchow who convinced doctors to think of disease at the cellular level This book tells Muller s story by interweaving it with those of seven of his most famous students Muller suffered from depression and insomnia at the same time as he was doing his most important scientific work and may have committed suicide at age 56 Like Muller his most prominent students faced personal and social challenges as they practiced cutting edge science Virchow was fired for his political activism Jakob Henle was jailed for membership in a dueling society and Robert Remak was barred from Prussian universities for refusing to renounce his Orthodox Judaism By recounting these stories Muller s Lab explores the ways in which personal life can affect scientists professional choices and consequently affect the great discoveries they make

**Re-crafting Rationalization** Simon Locke, 2016-03-23 Re crafting Rationalization contributes to debates relating to the public understanding of science regarding the conceptualization of the relationship between science and the public It challenges the prevailing science centred or top down framework that currently informs notions of public engagement and knowledge transfer offering an alternative that remains firmly grounded in the discourse of classical social theory By proposing an alternative version of rationalization to the standard interpretation of Weber s disenchantment thesis this book establishes the public understanding of science as a matter of fundamental sociological concern As such it redefines this field to emphasize public meanings of science engaging with a range of topics of major interest to the public and popular meaning of science including science and religion science fiction and fantasy fringe science and media representations of science Combining rhetorical analysis with ethnomethodology and membership categorization analysis the book outlines the basis of a new approach to the sociology of knowledge in the light of which Weber s rationalization thesis is radically re crafted in relation to studies of scientists discourse the rhetoric of science popularization and public usages of science This re crafted rationalization is applied in a series of detailed empirical studies of enchanted science creationism and intelligent design Scientology and reflexive spirituality superhero comics and mundane mysteries Fortean discourse conspiracy theory and media representations of the scientist in the case of Jack the Ripper Re crafting Rationalization therefore redresses a

significant shortcoming in contemporary social theory which currently overlooks or misrepresents important public meanings of science whilst excluding popular culture from attention With profound implications for the ways in which we make sense of developments involving science this book will be of interest not only to sociologists and social theorists but also to those interested in popular culture and subcultures and the history philosophy and sociology of science **Mad, Bad and**

**Dangerous?** Christopher Frayling, 2013-06-01 From Victor Frankenstein to Dr Moreau to Doc Brown in Back to the Future the scientist has been a puzzling fascinating and threatening presence in popular culture From films we have learned that scientists are either evil maniacal geniuses or bumbling saviors of society Mad Bad and Dangerous puts this dichotomy to the test offering a wholly engaging yet not uncritical history of the cinematic portrayal of scientists Christopher Frayling traces the genealogy of the scientist in film showing how the scientist has often embodied the predominant anxieties of a particular historical moment The fear of nuclear holocaust in the 1950s gave rise to a rash of radioactive mutant horror movies while the possible dangers of cloning and biotechnology in the 1990s manifested themselves in Jurassic Park During these eras the scientist's actions have been viewed through a lens of fascination and fear In the past few decades with increased public awareness of environmental issues and of the impact of technology on nature the scientist has been transformed once again into a villainous agent of money hungry corporate powers Mad Bad and Dangerous also examines biographical depictions of actual scientists illuminating how they are often portrayed as social misfits willing to sacrifice everything to the interests of science Drawing on such classic and familiar films as Frankenstein Metropolis and The Wizard of Oz Frayling brings social and film history together to paint a much larger picture of the evolving value of science and technology to society A fascinating study of American culture and film Mad Bad and Dangerous resurrects the scientists of late night movies and drive in theaters and gives them new life as cultural talismans Science on Stage Kirsten Shepherd-Barr, 2012-08-19

Science on Stage is the first full length study of the phenomenon of science plays theatrical events that weave scientific content into the plot lines of the drama The book investigates the tradition of science on the stage from the Renaissance to the present focusing in particular on the current wave of science playwriting Drawing on extensive interviews with playwrights and directors Kirsten Shepherd Barr discusses such works as Michael Frayn's Copenhagen and Tom Stoppard's Arcadia She asks questions such as What accounts for the surge of interest in putting science on the stage What areas of science seem most popular with playwrights and why How has the tradition evolved throughout the centuries What currents are defining it now And what are some of the debates and controversies surrounding the use of science on stage Organized by scientific themes the book examines selected contemporary plays that represent a merging of theatrical form and scientific content plays in which the science is literally enacted through the structure and performance of the play Beginning with a discussion of Christopher Marlowe's Doctor Faustus the book traces the history of how scientific ideas quantum mechanics and fractals for example are dealt with in theatrical presentations It discusses the relationship of science to

society the role of science in our lives the complicated ethical considerations of science and the accuracy of the portrayal of science in the dramatic context The final chapter looks at some of the most recent and exciting developments in science playwriting that are taking the genre in innovative directions and challenging the audience's expectations of a science play The book includes a comprehensive annotated list of four centuries of science plays which will be useful for teachers students and general readers alike

**Communicating Science** Nicholas Russell, 2010 Ideal for students and practitioners in science engineering and medicine this book gives an insight into science's place in society

*Discourses and Narrations in the Biosciences* Brian Hurwitz, Paola Spinozzi, 2011 *Discourses and Narrations in the Biosciences* investigates the forms of writing in which scientific claims are formulated and announced Argumentative strategies compositional rules and figurative expressions in communication and narrativization of scientific knowledge are the focus of interdisciplinary contributions by humanities and science scholars The first part of the book dedicated to Rhetorical and Epistemological Aspects of Science Writing addresses how scientific pursuits and methods feed into multi level texts that generate responses within science society and culture The second part entitled Bioscientific Discourses and Narrations examines popularisations and fictionalizations of science in relation to diversity deviancy ageing illness reproduction the evolution of humankind mathematical models of biomedical systems and the myth of the heroic scientist Assessing the narrative impetus and command of literary and meta discursive strategies shown by contemporary science writers enhances understanding of the methods and conventions through which the biosciences produce knowledge

*Application of Visual Data in K-16 Science Classrooms* Kevin D. Finson, Jon Pedersen, 2015-03-01 This book examines visual data use with students PK 16 as well as in pre service in service science teacher preparation Each chapter includes discussion about the current state of the art with respect to science classroom application and utilization of the particular visual data targeted by the author's discussion and explanation about the targeted visual data as applied by the author in his/her classroom use of visual data as a diagnostic tool its use as an assessment tool and discussion of implications for science teaching and/or science teacher preparation Although the body of research and practice in this field is growing there remains a gap in the literature about clearly explicating the use of visual data in the science classroom A growing body of literature discusses what visual data are although this topic is still viewed as being at the beginning of its development in educators thinking and there are some scattered examples of studies exploring the use of visual data in science classrooms although those studies have not necessarily clearly identified their foci as visual data per se As interest and attention has become more focused on visual data a logical progression of questioning has been how visual data are actually applied in the science classroom whether it be early elementary college or somewhere in between Visual data applications of interest to the science education community include how it is identified how it can be used with students and how students can generate it themselves how it can be employed as a diagnostic tool in concept development and how it can be utilized as an assessment tool This book explores that as well as a variety of



pragmatic ways to help science educators more effectively utilize visual data and representations in their instruction

*Perilous Escapades* Gary Hoppenstand, 2018-04-12 Adventure fiction is one of the easiest narrative forms to recognize but one of the hardest to define because of its overlap with many other genres This collection of essays attempts to characterize adventure fiction through the exploration of key elements such as larger than life characters and imperialistic ideas in the genre s 19th and 20th century British and American works like *The Scarlet Pimpernel* by Orczy and *Captain Blood* by Sabatini The author explores the cultural and literary impact of such works presenting forgotten classics in a new light

Neo-Victorian Humour , 2017-06-06 This volume highlights humour s crucial role in shaping historical re visions of the long nineteenth century through modes ranging from subtle irony camp excess ribald farce and aesthetic parody to blackly comic narrative games It analyses neo Victorian humour s politicisation its ideological functions and ethical implications across varied media including fiction drama film webcomics and fashion Contemporary humour maps the assumed distance between postmodernity and its targeted nineteenth century referents only to repeatedly collapse the same in a seemingly self defeating nihilistic project This collection explores how neo Victorian humour generates empathy and effective socio political critique dispensing symbolic justice but also risks recycling the past s invidious ideologies under the politically correct guise of comic debunking even to the point of negating laughter itself This rich and innovative collection invites us to reflect on the complex and various deployments of humour in neo Victorian texts where its consumers may wish at times that they could swallow back the laughter a scene or event provokes It covers a range of approaches to humour utilised by neo Victorian writers dramatists graphic novelists and filmmakers including the deliberately and pompously unfunny the traumatic the absurd the ribald and the frankly distasteful producing a richly satisfying anthology of innovative readings of canonical neo Victorian texts as well as those which are potential generic outliers The collection explores what is funny in the neo Victorian and who we are laughing at the Victorians as we like to imagine them or ourselves in ways we rarely acknowledge This is a celebration of the parodic playfulness of a wide range of texts from fiction to fashion whilst offering a trenchant critique of the politics of postmodern laughter that will appeal to those working in adaptation studies gender and queer studies as well as literary and cultural studies more generally Prof Imelda Whelehan University of Tasmania Australia

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