

Conduct and Misconduct in Sciences

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Introduction

How Science Works: Some Myths and Facts About Sciences

An Example: The Stern-Gerlach Experiment, Right Experiment, Wrong Theory

Types of Misconduct

Charles Babbage and his Reflections in 1830

1) Hoax; 2) Forgery, 3) Trimming; 4) Cooking

Deceit in History?

Plagiarism: Ptolemy versus Hypparchus

Fathers against Sons: J. Bernouilli versus D. Bernouilli

Newton and the "Fudge" Factor

Dalton and the Limits of Replication

Mendel and the Statistics too Good to be True

In the Case of Robert Andrew Millikan

Fraud and Deceit in Modern Science

Blondlot, the N-rays: a Case of Collective Self-Deception?

The Piltown Man Mystery: Hoax and Gullibility

Emil Rupp, Albert Einstein and the Nature of Light

Rupp, Dirac, Mott and the Electron Polarization: Wrong Experiment, Right Theory

Moewus and the Sex of Algae

Abderhalden's Enzymes: a too Long History

Rise of Careerists at Cornell and Harvard: M. Spector and J. Darsee

Guido Zadel and the Chirality of Life

The Failure of Objectivity: Science and Politics

Lamarckian View and India Ink: Paul Kammerer's Sad Story

Deutsche Physik: Scientists under Hitler

A Cataclysm on Russian Science: the Lysenko Affair

Intelligence, Heredity and Prejudice: Morton's Skulls and Burt's Twins

Conflict of Interests

Nobel in the Courts: Piccioni, Segrè and the Antiproton

Gallo, Montaigner and the AIDS Virus

The Scientist and the Magician: the Memory of Water

The Minnesota Tobacco Trial

Worse than Pulp Fiction : The Brach-Herrmann Affair

Whatever happened to Cold Fusion?

Physics/Science in The New Millennium – The role of the Web

False New Elements : a Never Ending Story

The Rise and Fall of a Superstar in the Nanoworld: The Schön Case

Stem Cell Meltdown

Fraud and the Structure of Scientific Research

How Prevalent is Fraud?: That's a Million Dollar Question

Danger Factors in Scientific Misconduct

Researcher's Role - Role of Hierarchy

Role of Research Institutions - Role of the Scientific Community

Role of the Scientific Journals: Publish and Be Damned.

Ethics

New Definition of Scientific Misconduct, Research Integrity

Responsible Authorship and Peer Review

Rules of Good Scientific Practices

Ethics and the Welfare of the Physics Profession

Trust and the Future of Research

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