

What Went Wrong With The Evolution Of Modern Physics?

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Scientific and mathematics disciplines began millenniums ago with the rise of ancient civilizations of Summer, Babylon, Egyptian, Chinese and Indian culture. Their early contributions started the establishment of the scientific and mathematical method. This early slow development of knowledge lasted for a long time before the spectacular emergence and rise of the brief but flourishing Greek civilization and philosophical thoughts. The Arab and Muslim were very keen in spreading Greek ideas and philosophy not only in the Middle East but throughout Europe part of which was under their occupation. To Europe, the dark ages ended up with the victory of the Renaissance over the traditionally controlled dogmatic teachings of the church. The beginning of new age started with the emergence of new breed of experimental and theoretical investigators such as Galileo, Copernicus and Kepler who revolutionized the scientific method which became less speculative and now based on empirical experimental facts and data. Thus no longer the planet Earth is playing a dominant cosmic role. It was reduced to a small spinning planet orbiting a big burning star. The overall development involved all branches of science, mathematics and engineering. Beside the important schools of philosophy which guided the way to true evolution, scientists such as Newton appeared on the scene with dramatic lasting contributions to explain the laws of mechanics and the force of gravitational attraction. Equally there was a parallel advance in elector-magnetic, optics, chemistry, biology and medical studies with many prominent contributors. The nineteenth century was decisive involving critical discoveries and new ideas. It was Maxwell mathematical treatment of the propagation of light and electromagnetic which started many controversial issues. There was a finite limit to the speed of light and the appearance of the controversial ether, a medium such as played by air with sound which thought was a necessary to carry the the electromagnetic waves. Thus light considered a wave is unlike a bullet projectile, it required a similar carrier. Thus started the experimental search (Michelson and Morley) with no success to explain the conflict. There was also the important issue of the change to the size of units (mass,time,length) as a frame gaining more kinetic energy with increased velocity. This was treated mathematically by Lorentz transformations. However, Einstein in his super theory of relativity claimed cosmic time to dilate and length of the meter rod to contract along its direction of motion. These hypothesis were generally adopted by the scientific community without investigating why clocks physically run slower and contraction taking place. Thus *STR* was transformed into a religious doctrine. If one dared to express his doubts or ventured to introduce alternative solutions, he was dismissed as a heretic and his efforts were ignored by the establishment. We should, therefore, look for fresh ideas to clear out a stagnating situation that we had been buried under for over a century. It is correct to respect and learn from great teachers but it is wrong to idolize them and consider their contributions beyond falsification.