

Curriculum Vitae

Conrad Ranzan, U.R.S.C.*

(* Unindoctrinated Revolutionary Scientist/Cosmologist)

Formal education: Studied engineering at the University of Toronto and Ryerson University during the 1970s.

2001 Founded the cosmology known as the **Dynamic Steady State Universe (DSSU)**, an uncompromisingly natural theory of our **cellular universe**.

DSSU C. Ranzan, *The Dynamic Steady State Universe*, **Physics Essays** Vol.27, No.2, pp.286-315 (2014). Doi: <http://dx.doi.org/10.4006/0836-1398-27.2.286> [Reprint](#)

2002 Presented the **DSSU theory** at the **2002 ESA/ESO/CERN Astrophysics Symposium** in Munich, Germany. The DSSU concept, thus, made its inaugural appearance in the scientific literature.

Advent of 5th Cosmology Proceedings of the ESO-CERN-ESA Symposium on Astronomy, Cosmology and Fundamental Physics: <http://www.eso.org/sci/meetings/2002/symp2002.html>
List Of Poster Presentations: <http://www.eso.org/sci/meetings/2002/symp2002/posters.html>
C. Ranzan, *The Case for a Cellular Universe –The Story of a Baffling Omission in Modern Cosmology*. **Posted at:** www.CellularUniverse.org/Th1CellularUniverseArgument.htm

2005-2009 Originated and developed the **gravity-cell theory of cosmic redshift**, a theory that requires a logarithmic equation for the conversion of redshift to cosmic distance for the DSSU (the nonexpanding cellular universe).

Cosmic redshift C. Ranzan, 2005 ... *DSSU Cosmic Redshift-Distance Relation –Converting the Cosmic RS into Distance for our Cellular Universe*. **Posted at:** www.CellularUniverse.org/D1CosmicDistEq.htm
C. Ranzan. 2008 ... *DSSU the Nonexpanding Universe: Structure, Redshift, Distance*. **Posted at:** www.CellularUniverse.org/Th0NonExpandU.htm
C. Ranzan, 2009 ... *Unified Gravitation Cells of the DSSU –Constructing the Universe with Gravity Cells*. **Posted at:** www.CellularUniverse.org/G4GravityCell.htm
C. Ranzan, *Cosmic-Redshift Distance Law Without c Without H, Galilean Electrodynamics* Vol.25, No.3, pp43-55 (2014). [Reprint](#) **posted at:** www.cellularuniverse.org/Directory.htm

2009-2010 Resolved the **Dark Matter mystery**. Discovered the cosmic *harmony of opposites*.

Cosmic harmony of opposites C. Ranzan, *The Story of Gravity and Lambda –How the Theory of Heraclitus Solved the Dark Matter Mystery*, **Physics Essays** Vol 23, No.1, pp75-87 (2010). Doi: <http://dx.doi.org/10.4006/1.3293983> [Reprint](#) posted: www.cellularuniverse.org/Directory.htm
C. Ranzan. 2007 rev2010. *Gravity and Lambda –A Story of Opposites*. **Posted at:** www.CellularUniverse.org/G1GravityLambda.htm
C. Ranzan, 2015. *Gravity and Dark Energy (How They Shape the Universe) –An Introduction*. **Posted at:** www.CellularUniverse.org/Gravity&DarkEnergy-Intro.htm

2010 Discovered and developed the **fundamental process of energy** —a process that unites aether, energy, mass, and gravity.

Energy process C. Ranzan, *The Fundamental Process of Energy –A Qualitative Unification of Energy, Mass, and Gravity*. Part I: **Infinite Energy** Issue #113 Jan/Feb 2014; Part II: **Infinite Energy** Issue #114 Mar/Apr 2014. (<http://www.infinite-energy.com/>)
Part I (**Infinite Energy**): <http://www.infinite-energy.com/iemagazine/issue113/index.html>
Part II (**Infinite Energy**): <http://www.infinite-energy.com/iemagazine/issue114/index.html>
Reprints posted at: www.cellularuniverse.org/EnergyProcess-Intro&Discuss.htm

2012	Derived the phenomenon of length contraction due to motion — <i>without resorting to conventional relativity theory</i> .
Length contraction	C. Ranzan. 2013. <i>The Physical Nature of Length Contraction</i> , Applied Physics Research Vol.5, No.1, pp87-101 (2013 Feb). (Doi: http://dx.doi.org/10.5539/apr.v5n1p87) Reprint posted at: www.cellularuniverse.org/Directory.htm
2011-2012	Discovered and developed the DSSU aether theory of gravity . Inaugurated the revolutionary unifying concept of the three Processes of Gravitation.
Three gravity processes	C. Ranzan, <i>The Processes of Gravitation –The Cause and Mechanism of Gravitation</i> , Journal of Modern Physics and Applications, Vol.2014 (2014), Article ID 3. Reprint posted at: www.cellularuniverse.org/G6GravityProcesses-abst&.htm
2013	Discovered the causal mechanism of the COSMIC REDSHIFT described as the velocity differential redshift . This is the redshift mechanism based on the velocity difference, between the ends of a photon or wave-packet of light, caused by the flow of aether —the inhomogeneous motion of the all-pervading essence medium of the universe.
Cosmic redshift	C. Ranzan, <i>Cosmic Redshift in the Nonexpanding Cellular Universe: Velocity-Differential Theory of Cosmic Redshift</i> , American Journal of Astronomy & Astrophysics Vol.2, No.5, pp.47-60 (2014). (Doi: http://dx.doi.org/10.11648/j.ajaa.20140205.11) Reprint
2014	Uncovered the mechanism that produces GALAXY ELLIPTICITY —an important aspect of galaxy evolution.
Galaxy evolution	C. Ranzan, <i>Ellipticity, Its Origin and Progression in Comoving Galaxies</i> , American Journal of Astronomy and Astrophysics , Vol.3, No.2, pp.12-25 (2015). Doi: http://dx.doi.org/10.11648/j.ajaa.20150302.11 Reprint
2015	Resolved the mystery of the most inexplicable structural features in modern astronomy/cosmology —the remarkable sequence of galaxy clusters along the line of sight of the famous <i>Abell85</i> cluster as well as related large-scale galaxy configurations.
Cosmic structure	C. Ranzan, <i>DSSU Validated by Redshift Theory and Structural Evidence</i> , Physics Essays Vol.28, No.4, pp455-473 (2015). Doi: http://dx.doi.org/10.4006/0836-1398-28.4.455 Reprint posted at: www.cellularuniverse.org/DSSUvalidation.htm C. Ranzan, <i>Large-Scale Cell Structure of the Dynamic Steady State Universe</i> , American Journal of Astronomy & Astrophysics Vol.4, No.6, pp65-77 (2016). Doi: http://dx.doi.org/10.11648/j.ajaa.20160406.11 Reprint
2016	Resolved Olbers' Paradox for our nonexpanding infinite Universe.
Olbers' paradox	C. Ranzan, <i>Olbers' Paradox Resolved for the Nonexpanding Infinite Universe</i> , American Journal of Astronomy and Astrophysics Vol.4, No.1, pp1-14 (2016). Doi: http://dx.doi.org/10.11648/j.ajaa.20160401.11 Reprint
2017	Disproved the Sachs-Wolfe effect and revealed the fundamental flaw in the spectral analysis of gravity wells . It was clearly and compellingly shown that the purported S-W effect rests on an utterly false premise. (The untenability of the Sachs-Wolfe effect served as a final devastating blow to the Big Bang hypothesis.)
Sachs-Wolfe effect	C. Ranzan, <i>Sachs-Wolfe Effect Disproof – The fundamental flaw in the spectral analysis of gravity wells</i> , International Journal of Astrophysics and Space Science Vol.6, No.1, pp.1-17 (2028). (Doi: http://dx.doi.org/10.11648/j.ijass.20180601.11) Reprint posted at: www.cellularuniverse.org/Directory.htm

2018	Discovered the mechanism of gamma ray production by Terminal Stars (critical-state neutron stars). This breakthrough stands as the first compelling explanation of the generation of ultra-energy gamma particles and PeV-energy neutrinos, as well as the associated mechanism responsible for powering astrophysical jets .
Extreme energy	C. Ranzan, <i>Natural Mechanism for the Generation and Emission of Extreme Energy Particles</i> , Physics Essays Vol.31, No.3, pp.358-376 (2018). Doi: http://dx.doi.org/10.4006/0836-1398-31.3.358 Reprint posted at: www.cellularuniverse.org/Directory.htm
2018-2019	Discovered the natural mechanism for gravity effects, the veritable key to the revolutionary unification of gravity theory , the key to the synthesis of the primary cause and the four manifestations of gravity. Found was the one underlying Factor that unifies gravity's <i>convergent, divergent, vortex, and wave effects</i> .
Unification of gravity	C. Ranzan, <i>The Nature of Gravity –How one factor unifies gravity's convergent, divergent, vortex, and wave effects</i> , International Journal of Astrophysics and Space Science Vol.6, No.5, pp.73-92 (2018). Doi: http://dx.doi.org/10.11648/j.ijass.20180605.11 Reprint posted at: www.cellularuniverse.org/Directory.htm
2019	Discovered the fundamental mechanism whereby limitless energy is extracted from nonmaterial aether . Essentially, what has been uncovered is the mechanism by which the universe perpetually regenerates its energy!
Limitless energy	C. Ranzan, <i>Nature's Supreme Mechanism for Energy Extraction from Nonmaterial Aether</i> , Infinite Energy Vol.25, Issue#144 (2019 March/April) Issue#144 (Index): http://www.infinite-energy.com/iemagazine/issue144/index.html Reprint posted at: www.cellularuniverse.org/Directory.htm
2019	Uncovered the mechanism whereby mass undergoes a total conversion to energy without the interaction of antiparticles. ... This involved original research into the natural transformation of mass energy to photonic energy .
Mass-to-energy conversion	C. Ranzan, <i>Mass-to-Energy Conversion, the Astrophysical Mechanism</i> , Journal of High Energy Physics, Gravitation and Cosmology Vol.5, No.2, pp.520-551 (2019). Doi: https://doi.org/10.4236/jhepgc.2019.52030 Reprint posted at: www.cellularuniverse.org/Directory.htm
2020	As part of the ongoing research into DSSU theory, a compelling explanation of the cause of galaxy rotation was developed.
Cause of galaxy rotation	C. Ranzan, <i>Natural Cause of Galaxy Rotation</i> , <i>American Journal of Astronomy and Astrophysics</i> Vol.8, No.2, pp19-29 (2020). (Doi: http://dx.doi.org/10.11648/j.ajaa.20200802.12) Reprint posted at: www.cellularuniverse.org/Directory.htm
2020	Extended the earlier research into the Universe's source energy identified as the Blueshifting of radiation —described as Nature's fundamental energy amplification process .
Universe's source energy	C. Ranzan, ... <i>Energy Generation via Velocity Differential Blueshift</i> , Physics Essays Vol.33, No.3 pp289-298 (Sept 2020). Doi: http://dx.doi.org/10.4006/0836-1398-33.3.289 Reprint posted at: www.cellularuniverse.org/Directory.htm

2021	Discovered the <i>conservation of energy mechanism</i> pertaining to our Universe. An unprecedented development in the long history of cosmology; it makes the DSSU the first proper scientific theory of the Universe.
Cosmic energy conservation	C. Ranzan, ... <i>Cosmic-Scale Conservation of Energy</i> , Physics Essays Vol.34, No.3, pp.331-339 (Sept 2021). Doi: http://dx.doi.org/10.4006/0836-1398-34.3.331 Reprint posted at: www.cellularuniverse.org/Directory.htm
2020-2021	Researched and published the laws of physics that rule the Universe — laws of physics that 20th-century scientists overlooked.
Special series:	<i>Part 1: The Velocity Differential Propagation of Light</i> , Physics Essays Vol.33, No. 2, pp.163-174 (2020). Doi: http://dx.doi.org/10.4006/0836-1398-33.2.163 ; Reprint
Overlooked laws of physics	<i>Part 2: Energy Generation via Velocity Differential Blueshift</i> . SEE Universe's source energy (above). Reprint <i>Part 3: Noninteraction Mass-to-Energy Conversion</i> , International Journal of High Energy Physics, Vol.7, No.1, pp.19-31 (2020). Doi: http://dx.doi.org/10.11648/j.ijhep.20200701.14 <i>Part 4: Mass Extinction by Aether Deprivation</i> , Journal of High Energy Physics, Gravitation and Cosmology Vol.7, No.1, pp.191-209 (2021). Doi: https://doi.org/10.4236/jhepgc.2021.71010 <i>Part 5: Centrifugal Effect Negation</i> , Applied Physics Research Vol.13, No.2, pp.13-34 (2021). Doi: https://doi.org/10.5539/apr.v13n2p13 Reprint <i>Part 6: SEE Cosmic-Scale Energy Conservation</i> (above). Reprint <i>Part 7: Steady State Cosmic Structure</i> , Open Access Library Journal Vol.8, No.12 (2021). Doi: 10.4236/oalib.1107901 ; Journal article
2021	First complete explanation of how our Universe sustains its steady state existence —as a <i>perpetual self-balancing system</i> .
Mainspring of the Universe	C. Ranzan, <i>Mainspring of the Universe –The Mechanism Sustaining the Universe's Steady State</i> , International Journal of Cosmology, Astronomy and Astrophysics; 3(1), pp.130-142 (2021). Doi: https://doi.org/10.18689/ijcaa-1000128

Note: Reprints of articles are available at www.CellularUniverse.org/

Conrad Ranzan is the creator and operator of the cosmology/physics website www.CellularUniverse.org devoted to presenting the extensive research into DSSU theory.

Books Authored

Guide to the Construction of the Natural Universe

(DSSU Research, Niagara Falls, Canada, 2014) ISBN 978-0-9938823-0-2

An entertaining account of the problem-free cosmology known as the Dynamic Steady State Universe —an uncompromisingly natural theory of our cellular universe.

The Nature of Gravitational Collapse

(LAP Lambert Academic publishing, Moldova, 2017) & (DSSU Research, Niagara Falls, 2017 Nov) ISBN 978-3-330-34312-2

Subtitle: How the photon, the particle of light, is responsible for mass, gravity, superneutron stars, and supermassive black-holes

Laws of Physics Twentieth-Century Scientists Overlooked

(Being published, 2022) ISBN #978-0-9938823-1-9

The book is an exploration into the key principles and processes that rule the Universe. All rest on legitimate scientific grounds, all are based on sound physics and validated or supported by observational evidence —yet all were missed by the experts of the 20th century!

Truth-seeking is the essence of human dignity.

–Germar Rudolf (imprisoned in Germany for his historical research)

The only meaningful life is one grounded in rational discourse.

–Immanuel Kant

Files: Ranzan-CurriculumVitae(2022).doc & pdf