"Validate Energy" Publication & Scholarship Competitions

Several important aspects of the "law of conservation of energy" have never been fully validated.

In 2019, Du-Ane Du became the first to fully validate universal momentum conservation in his edu-novel, *Murdered Energy Mysteries* (Amazon). Many of his articles can be found at *Wacky*1301SCI.com

We at *Wacky*1301SCI.com would like to find a college or high school student, or a high school team, who can be the first in history to develop the proofs and examples needed to fully validate universal energy conservation.

There are 2 competitions: A national [U.S.] publishing competition, and a Texas state-wide scholarship competition. Each will be awarded to the first applicants to submit the needed proofs and examples, in accordance with rules, etc. (This is a race!)

Only 1 national publishing winner/team, and 1 Texas scholarship winner/team. (A Texas student could win both!) Free to enter.

Details at *Wacky*1301SCI.com
Current competition end date on website,
but competition may be renewed if no winner.

Entry Forms & Guidelines

"Validate Energy" National Publishing Competition, "Validate Energy" Texas Scholarship Competition ($4,000)

Revised December 2022, ends December 31, 2023.
No entry fee!

In his edu-novel *Murdered Energy Mysteries: Investigating Newton's Fruit,* author Du-Ane Du became the first person in history to fully mathematically validate the law of conservation for momentum. *Murdered Energy Mysteries* examines five areas of momentum-transfer and energy-transfer:


Part 1, Motion, Chapters 101-112
Part 2, Gravity, Chapters 201-207
Part 3, Heat, Chapters 301-317
Part 4, Electricity, Chapters 401-414
Epilogue, Special Forces Solve the
    Mysteries

Unfortunately, even after years of research, Mr. Du was never able to mathematically validate the law of conservation for energy, with respect to many of the energy transfers allegedly taking place in nature.
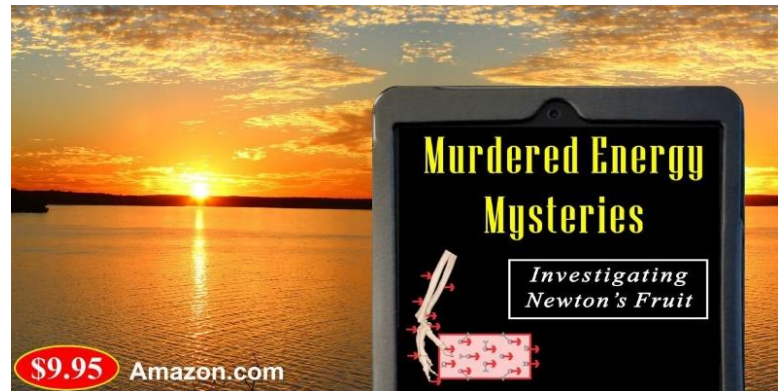
In fact, despite nearly 200 years of philosophical acceptance, **the law of conservation of energy has never been fully validated**, neither mathematically nor experimentally. ***This regrettable situation needs to be rectified.***

To that end, this "Validate Energy" National Publishing Opportunity, and this "Validate Energy" Texas $4,000 Scholarship, will be awarded to the first college student(s), high school students, or high school teams, to validate most or all of the law of conservation of energy, using methodologies similar to those in *Murdered Energy Mysteries: Investigating Newton's Fruit*, available at Amazon/Kindle. (Free samples at www.Wacky1301SCI.com, no purchase necessary.)

Note that there are two identical competitions, the publishing competition is national, while the scholarship is only for Texas students. In both competitions, the winning contestant must provide mathematical proofs and three examples of energy transfers such as:

    Chemical energy to kinetic energy,
    Gravitational energy emission rate of a planet (or other object),
    Kinetic energy of moving object to heat energy (molecular KE),
    Charge energy emission rate of positive and negative objects, etc.

Time-based Competition:

This is a time-based competition. The scholarship will go to the *first* person (or high school team) to send in *all* of the indicated proofs, etc. Here "first person" will be based on the date when the email entry is received. Only 1 winner, but a team of 2-4 high school students can share the publishing opportunity and $4,000 scholarship. (The energy conundrum hasn't been solved in 200 years, so there may be no winner.)

Eligibility:

The $4,000 Texas scholarship is open to high school students, college students, and grad students, living and studying in Texas. If there is no winner before Dec 31, 2023, the competition may be extended and possibly expanded.

The publishing opportunity is a national competition, open to U.S. high school students, college students, and grad students, living and studying in the United States. If there is no winner before Dec 31, 2023, the competition may be extended.

A Texas student/team can win both competitions if they are first overall.

NO ENTRY FEE

Repeat Attempts:

An individual can only enter one submission per year. Individuals who enter in the spring may not send in another attempt until the next spring. Likewise individuals who enter in the fall cannot send in another attempt until the next fall. Teams are limited to high school students only, and teams cannot apply a second time. Individuals who apply as a part of a team cannot re-apply individually for 1 year.

Here we will define "spring" as January through June, and "fall" as July through December. Therefore someone who enters the competition in February, cannot send in a second attempt until the following January. Similarly, someone who enters the competition in November, cannot send in another attempt until the following July.

The current cutoff is December 31, 2023, but the competitions may once again be extended if there is no winner. (Previous cutoffs were Dec 2021 and Dec 2022, but there was no winner, so the competition continues!)

Professor/Mentor Review (required):

Anyone planning to send in a competition packet must have their entry materials reviewed by a professor or professional mentor prior to submission. The Mentor's Affirmation Letter is included in the registration materials. This required step will decrease the likelihood of an early rejection letter, and a one-year wait for the next entry opportunity. (The energy conundrum has not been solved in nearly 200 years, so it is better to be correct than early-but-wrong!)

Algebra-Trig based:

The issues involved are not calculus related. Therefore, to ensure a fair playing field, all derivations and examples must be in algebraic form. No calculus allowed.

Conservation and Energy Notation:

The conservation laws: $W_{in} + E_{in} = W_{out} + E_{out}$ (energy) and $\rho_{in} + im\rho_{in} = \rho_{out} + im\rho_{out}$ (momentum) must be adhered to at all times. Rhetorical excuses for non-compliance will not be accepted.

Traditional energy notation (1900 to current) must be followed (ie. joules of KE and joules of CPE, etc.)

Copyright:

Copyright law applies to everything that is written down, as soon as it is written down. We will consider all material submitted as being copyrighted by the contestant. To preserve copyright privileges, and to prevent accidental transfer of copyrighted ideas from one contestant to another, no critique will be offered to contestants who fall short of the winning goal.

We also do not want to accidentally favor one contestant over another—so we will not provide comments or suggestions to anyone.

To protect each contestant's copyright, we will not circulate or publish any materials without the contestant's permission. Because the contestant owns the copyright, at any time the contestant can feel free to submit the material to any journal or publishing outlet she/he wishes, without our consent (no notification needed).

Publishing Opportunity:

No one has ever successfully validated all aspects of energy theory, so a winning entry will be a significant contribution to the scientific community. The contest winner may choose to be announced on the Wacy1301SCI.com website, and the winner can choose to have his/her article published on the Wacky3101SCI.com website. If the applicant wishes, the competition staff will help the winner to submit articles to scientific journals, websites, etc.

Adjudication:

One member of the adjudication panel will do an initial read-through to make certain all materials have been submitted. If any proofs, examples, or supporting material is missing, then the entry will become void, and the contestant cannot re-enter until the next year. Partial entries will not be accepted. (Mentor Review will help minimize early rejections.)

These is a time-based competition. The awards will go to the *first* person (or high school team) to send in *all* of the indicated proofs, etc. Here "first person" will be based on the date when the email entry is received. Only 1 overall winner for each competition.

Do not forget your Professor/Mentor Review! The energy conundrum has not been solved in nearly 200 years, so may well be a "slow-motion" race. It is better to be correct than early-but-wrong!

ENTRY FORM
"Validate Energy" National Publishing Competition
"Validate Energy" Texas Scholarship Competition ($4,000)
Revised December 2022, ends Dec 31, 2023
No Entry Fee!

Application Date: _____

Date of Previous Application: _____

Email PFD of entry forms and supporting material to:

ENERGY1.Competition@Wacky1301SCI.com

- Print forms and complete—word processor equivalent is acceptable,
- Competition ends Dec 31, 2023, it's a race, first correct entrant wins!
- Attach your current school transcript,
- Attach proofs and examples,
- Check www.Wacky1301SCI.com to see if competition is still active, forms and requirements haven't changed,
- Scan all material into a single PDF, and email to above address, before Dec 31,2023.

Last Name: _____ First: _____ Middle: _____

Degree Program: _____

School Attending: _____

High School graduated from: _____

Current School Address: _____

City: _____

State: _____ Zip: _____

Check: ____ High School Senior, (complete 5 proofs with examples)

           ____ High School Team of 2-4, (complete all 7 proofs with examples)

           ____ College student, (complete 5 proofs with examples)

           ____ Masters student, (complete 6 proofs with examples)

           ____ Doctoral student, (complete all 7 proofs with examples)

           * Only 1 National Publishing winner, and 1 Texas Scholarship winner.

MUST ATTACH current school transcript(s).

           School transcript(s) attached   _____Yes   _____No

Applicant's Email Address: _____

Mailing Address: _____

                     _____

       City: _____

      State: _____ Zip: _____

(All communication will be via email, so make certain your email address is correct, and that our return emails will not accidentally go into a spam/junk folder.)

High School Teams: All communications, etc. will be done through the team leader who must fill out the above forms. Max of 4 students per team.

Member #2:

   Name: _____

   Address: _____

   School: _____

Member #3:

   Name: _____

   Address: _____

   School: _____

Member #4:

Name: _____

Address: _____

School: _____

Mentor's Affirmation
(Required.)

Applicant's name: _____

Mentor's name: _____

Institution/Company: _____

Title: _____

e-mail (Optional): _____

As mentor, I have reviewed the materials being submitted and I confirm that standard experimental, scientific, and mathematical procedures were followed. As such, these materials are appropriate for submission in the Validate Energy Competition.

Signature: _____   Date: _____

Checklist of proofs & examples

Note: Every proof must be accompanied by a minimum of 3 examples. The foundational work for the proofs was done by educator-author Du-Ane Du, and is presented in *Murdered Energy Mysteries: Investigating Newton's Fruit*. Free PDF excerpts of several competition-related chapters are available at www.Wacky1301SCI.com.

Complete e-book is available for $9.95 at Amazon/Kindle. Purchase is not required to enter competition, however *Murdered Energy Mysteries* contains substantial preliminary information that will save contestants a great deal of time and effort. (*M.E. Mysteries* uses examples written

in novel form. The examples submitted by scholarship contestants should be in mathematical/scientific form only. This is a physics competition, not a writing competition.) Numerous articles relating to these topics can be found at www.Wacky1301SCI.com.

1. Chemical fuel energy transferring to kinetic energy of moving object

❑ Equation & derivation. Must show an exclusive 1-to-1 relationship between the amount of fuel used and the amount of KE produced. (See *M.E. Mysteries,* Chapter 110, 111, 201, and articles available at www.Wacky1301SCI.com.)

❑ 3 mathematical examples, each with a significantly different accelerating mass (such as 1m, 5m, 10m) and significantly different starting velocity (such as 1v, 5v, 10v). All examples must use the same amount of fuel (such as 12 grams) and conclude with the same amount of energy produced.

❑ Calculate impulse/momentum-transfer produced during each example. (*M.E. Mysteries,* Chapter 104, 105, 201.)

❑ All derivations and examples must be in algebraic form, no calculus allowed. Must use traditional energy notation 1900-2023.

(Hint, for the CPE-to-KE transfer to be mathematically valid, all energy answers must be the same for the same amount of fuel. Impulse/momentum-transfer must also have matching answers. *This step is important, because failure to validate this type of energy transfer also invalidates the entire "law" of conservation for energy!*)

* Rhetorical excuses for energy creation/destruction will not be accepted.

2. Chemical fuel energy transferring to work done (GPE) to lift object from a lower stationary position to a higher stationary position.

❑ Equation & derivation. Must show an exclusive 1-to-1 relationship between the amount of fuel used and the amount of work done. (See M.E. Mysteries, Chapter 301, E01, E02, and articles available at www.Wacky1301SCI.com.)

❑ 3 mathematical examples, each with a significantly different mass (such as 1m, 5m, 10m), different accelerating force, and significantly different average velocities (such as 1v, 5v, 10v). Each must use the same amount of fuel as in the CPE examples (such as 12 grams).

❑ Calculate impulse/momentum-transfer produced during each example.

❑ All derivations and examples must be in algebraic form, no calculus allowed. Must use traditional energy notation 1900-2023.

(Hint, for the CPE-to-WD transfer to be mathematically valid, all energy answers must be the same. Impulse/momentum-transfer must also have matching answers. *Failure to*

validate this type of energy transfer also invalidates the entire "law" of conservation for energy!)

* Rhetorical excuses for energy creation/destruction will not be accepted.

3. Gravitational energy transmission rate to moving object.

❑ Equation & derivation. Must produce the unit *J/s/kg*. (See *M.E. Mysteries,* Chapter 202, 203, and articles available at www.Wacky1301SCI.com.)

❑ 3 mathematical examples, each with the same non-earth planet, with 3 significantly different receiving masses (such as 1m, 5m, 10m), significantly different starting velocities (such as 1v, 5v, 10v), and tracked by the second, over a period of 20 seconds.

❑ Calculate impulse/momentum-transfer produced during each example. (*M.E. Mysteries,* Chapter 202.)

❑ All derivations and examples must be in algebraic form, no calculus allowed. Must use traditional energy notation 1900-2023.

(Hint, for Gravitational Energy transfer to be mathematically valid, all energy answers should be the same for every 1 second interval. Impulse/momentum-transfer must also have matching answers. *Failure to validate this type of energy transfer also invalidates the entire "law" of conservation for energy!*)

* Rhetorical excuses for energy creation/destruction will not be accepted.

4. Kinetic energy of moving object transferring to molecules of a gas to produce molecular heat energy.

❑ Equation & derivation. (See *M.E. Mysteries,* Chapter 306, 307, and articles available at www.Wacky1301SCI.com.)

❑ 3 mathematical examples, involving significantly different masses (such as 1m, 5m, 10m) moving at significantly different starting velocities (such as 1v, 5v, 10v). Each example must include human level view, solar level view, and galactic level view.

❑ Calculate impulse/momentum-transfer produced during each example.

❑ All derivations and examples must be in algebraic form, no calculus allowed. Must use traditional energy notation 1900-2023.

(Hint, for joules of Kinetic Energy to be a scientifically valid unit of measure, ΔKE must be the same in all three views. Impulse/momentum-transfer must also be conserved throughout. *Failure to validate this type of energy transfer also invalidates the entire "law" of conservation for energy!*)

* Rhetorical excuses for energy creation/destruction will not be accepted.

5. Kinetic energy during inelastic expansions must obey Newton's third law.

☐ Equation & derivation for the conservation of KE during inelastic expansions involving objects with different masses. Ideally, equation should also include SPE or CPE. (See *M.E. Mysteries,* Chapter 311, 312, and articles available at www.Wacky1301SCI.com.)

☐ 3 mathematical examples, two involving Spring PE, one involving Chemical PE of an explosive fuel. Each example must involve two objects with significantly different masses (such as 1m, 5m), for a total of 6 objects with 6 different masses.

☐ Calculate impulse/momentum-transfer produced during each example. (*M.E. Mysteries,* Chapter 311.)

☐ All derivations and examples must be in algebraic form, no calculus allowed. Must use traditional energy notation 1900-2023.

(Hint, Newton's third law is derived from Descartes' conservation of momentum. For the law of conservation of energy to be valid, it must always obey Newton's law of action-reaction. In other words, it must obey equations similar to:)

$$SPE_{before} = (KE_{left} + KE_{right})_{after} \quad \textbf{where} \quad \textbf{KE}_{\textbf{left}} = \textbf{KE}_{\textbf{right}}$$

(Impulse/momentum-transfer must also be conserved throughout. *Failure to validate this type of energy transfer also invalidates the entire "law" of conservation for energy!*)

* Rhetorical excuses for energy creation/destruction will not be accepted.

6. Charge energy transmission rate to stationary charged object.

☐ Equation & derivation. Must produce the unit *J/C/kg*. (See M.E. Mysteries, Chapter 406, 407, 408, and articles available at www.Wacky1301SCI.com.)

☐ 3 mathematical examples, each with the same positive charge field, with negative receiving charges, significantly different starting velocities (such as 1v, 5v, 10v), and tracked by the nanosecond.

☐ 3 mathematical examples, each with the same negative charge field, with positive receiving charges, significantly different starting velocities (such as 1v, 5v, 10v), and tracked by the nanosecond.

☐ Calculate impulse/momentum-transfer produced during each example.

☐ All derivations and examples must be in algebraic form, no calculus allowed. Must use traditional energy notation 1900-2023.

(Hint, for Charge Energy transfer to be mathematically valid, all energy answers should be the same for every 1 nanosecond interval. Impulse/momentum-transfer must also have matching answers. *Failure to validate this type of energy transfer also invalidates the entire "law" of conservation for energy!*)

* Rhetorical excuses for energy creation/destruction will not be accepted.

7. Charge energy transmission obedience to Newton's 3rd law.

❑ Mathematical comparison of charge energy transmission from e- to p+ versus p+ to e-. (See *M.E. Mysteries,* Chapter 408, and articles available at www.Wacky1301SCI.com.)

❑ 3 mathematical comparisons, each with the same size charge fields, significantly different starting velocities (such as 1v, 5v, 10v), and tracked by the nanosecond.

❑ Calculate impulse/momentum-transfer produced during each example.

❑ All derivations and examples must be in algebraic form, no calculus allowed. Must use traditional energy notation 1900-2023.

(Hint, for law of conservation of energy to be true, transfer from e- to p+ must be equal to transfer from p+ to e-. Impulse/momentum-transfer must also be equal and opposite. *Failure to validate this type of energy transfer also invalidates the entire "law" of conservation for energy!*)

* Rhetorical excuses for energy creation/destruction will not be accepted.

FINAL NOTE:

In nearly 200 years, no one has been able to mathematically verify a "universal" law of conservation for energy, so don't be shocked if your answers are inconsistent. This is common, and suggests that energy may not exist in nature. It may be that "universal" energy conservation is only a philosophy, not an actual physical or mathematical phenomenon. (Perhaps the Universe is being powered by impulse, rather than energy. If that is true, there will never be a winner!)

The ultimate purpose of this competition is to promote intellectual exploration. Trying to solve an unsolvable energy conundrum will bring new understanding to all who attempt. If energy conservation is never verified, we will move forward with a deeper understanding of the world around us.

We hope everyone finds these puzzles enlightening.   – *Du*

- Check www.Wacky3101SCI.com to see if competition is still active, forms and requirements haven't changed,
- CUTOFF: Dec 31, 2023
- You must have a mentor review your material before you send it in!
- Attach current transcript,
- Attach all required proofs and examples,
- Scan all material into a single PDF, and email to:

    ENERGY1.Competition@Wacky1301SCI.com

"Validate Energy" National Publishing Competition, and "Validate Energy" Texas Scholarship Competition ($4,000)

Until recently, no one had mathematically validated the "law" of conservation for momentum, with respect to the momentum transfers allegedly taking place in nature. The "law" of conservation for energy also has not been fully validated. *Two significant oversights that should embarrass every scientist. How can we call these "laws" when they have never been fully validated?* This **publishing opportunity and $4,000 scholarship** will be awarded to the first student(s) to validate most or all of the law of conservation of energy, using methodologies similar to those in *Murdered Energy Mysteries: Investigating Newton's Fruit*, available at Amazon/Kindle. (Free samples at www.Wacky1301SCI.com free to enter!)

In 2013, educator/author Du-Ane Du decided to be the first to write an edu-novel that fully explored both laws. "Mr. Du" looked at several dozen transfer scenarios, checked for obedience to Newton's third law, derived equations, and checked for mathematical validity. *Murdered Energy Mysteries* was released in 2018.

The good news is that all of the momentum transfer situations were valid, and Mr. Du became the first person in history to verify that the law of conservation of momentum is true in all situations.

Energy? **No scientist has ever successfully validated all types of energy transfer!** This **national publishing opportunity and $4,000 Texas college scholarship** will go to the first student to validate most or all of the law of conservation for energy. Competition levels for high school seniors, college students, graduate students. Rules and entry forms, Wacky1301SCI.com

Can you be the first to provide the equations and proofs needed to show that these and other energy transfers are valid? (National publishing opportunity, and/or Texas $4,000 scholarship for winning entries!) **Free to enter.**

Consequences:

If one energy transfer remains invalid, then the entire law of conservation of energy becomes invalid, joules and watts become invalid units of measure for several types of energy and power, and $E = mc^2$ also becomes invalid.

Fortunately, according to Joule's original data, *1 calorie = 4.95 kgm/s* of heat-impulse, and (*1volt*)(*1amp*)(*1sec*) = 1.18 kgm/s of electric-impulse. The impulse equivalent to Einstein's equation appears to be: *imp = kmc*, where *k = 3.54**E**8*.

Based on this equation, the amount of nuclear impulse in 1 kg of matter is:

$$imp = (3.54\mathbf{E}8)mc$$
$$imp = (3.54\mathbf{E}8)(1\ kg)(2.998\mathbf{E}8\ m/s)$$
$$imp = 1.06\mathbf{E}17\ kgm/s$$

This is enough nuclear impulse to cause a 10ºC temperature increase in *2.14**E**12 kg* of water. (Point being, there are valid impulse units for heat and electricity that can be used instead of joules, if the "law of conservation of energy" is never validated.)

Murdered Energy Mysteries, Investigating Newton's Fruit
SAMPLE of FINDINGS

Type of Transfer	Momentum & Impulse	Energy & Work
1) Chemical fuel, to moving object ρ or KE		
k(grams fuel burned) = $mv_2 - mv_1$		
k(grams fuel burned) = $\frac{1}{2}mv_2^2 - \frac{1}{2}mv_1^2$		**invalid?** (Ch 110-11)
obedience to Newton's 3rd	**yes**	**no, invalid?** (Ch 312)
2) Gravitational ρ or E emission rate of planet		
imp/kg/s = $G\frac{m_{planet}}{r^2}$ J/kg/s = ??	**valid** (Ch 202,4)	**invalid?** (Ch 203)
3) ρ or KE of moving solid, to gas heat ρ or KE		
Solar-level or Galactic-level view	**valid** (Ch 305)	**invalid?** (Ch 306-7)
4) ρ or E emission rate of charged particle		
imp/C/s = $(8.99\mathbf{E}9)\frac{q}{r^2}$ J/C/s = ??	**valid** (Ch 406)	**invalid?** (Ch 407)
5) ρ or E emitted by charged particle,		
to moving electron ρ or KE	**valid** (Ch 406)	**invalid?** (Ch 407)
to moving proton ρ or KE	**valid** (Ch 408)	**invalid?** (Ch 408)
e⁻ p⁺ obedience to Newton's 3rd	**yes**	**no, invalid?** (Ch 408)

$9.95   Amazon.com

www.Wacky1301SCI.com