NMSR *REPORTS*

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The Newsletter of the
New Mexicans for Science and Reason

NMSR *Reports*, David E. Thomas, Editor, 801 Fitch Ave., Socorro, NM 87801 © 2017

JANUARY MEETING:

NEW MEXICANS FOR SCIENCE AND REASON WILL HEAR

Robert Kryder

on "Field studies and the UNM controversy regarding the study of an unrecognized, large bipedal omnivore in New Mexico, fact and fallacy."

==>CNM MAIN CAMPUS, Student Resource Center<==

==>Room 204<==

Bring a friend!

FUTURE MEETINGS ANNOUNCED

January 11th, 2017 NMSR Meeting: *BIGFOOT*! Robert Kryder, CEO of Kryder Exploration LLC, will talk about "**Field studies and the UNM controversy regarding the study of an unrecognized, large bipedal omnivore in New Mexico, fact and fallacy."**

Synopsis

Data and Evidence Acquisition / Presentation/ Field studies and the UNM controversy regarding the study of an unrecognized, large bipedal omnivore in New Mexico, fact and fallacy

***Definition of:science, scientist, discovery science**

Viability of Investigation - Pseudoscience?

UNM Study/Conference/Field Trip - Details and Misconceptions

Evidence Attributes/Statistical Probability

Accumulated Study Data/Quantifiable Data

Presentation: Ecology, Habitat, Diet,

Behavior Physical and Trace evidence,

Photos/Video/Audio, Questions and answers

7 PM Wednesday January 11th, CNM Main Campus, Student Resource Center, room 204 (@ Richard Barr Boardroom).

February 8th, 2017 NMSR Meeting: J. Pace VanDevender, PhD, on "Detection of quark-nugget candidate for dark matter."

Quark nuggets are also called strangelets, and nuclearites and are theoretical objects composed of approximately equal numbers of up, down, and strange quarks. They have been proposed as a candidate for dark matter, which constitutes ~85% of the universe's mass. Its nature has been a mystery for decades. Previous efforts to detect quark nuggets assumed that the nuclear-density core interacts directly with the surrounding matter so the stopping power is minimal. In contrast, we find that the large magnetic field of quark nuggets will produce a magnetopause with surrounding plasma, as the earth's magnetic field produces a magnetopause with the solar wind, and substantially increases the stopping power. We use the magnetopause model to compute the energy deposition on air, water, and earth as a function of quark-nugget mass, discuss the consequences for previous work, and show initial data that indicate instrumenting the Great Salt Lake in Utah USA can test the quark-nugget hypothesis for dark matter with mass > 0.003 kg.

New Mexicans for Science & Reason (NMSR)

NMSR is a non-profit group with the goals of promoting science, the scientific method, rational thinking, and critical examination of dubious or extraordinary claims. NMSR meets at 7 PM on the second Wednesday of each month, in Albuquerque, New Mexico, at CNM's Student Resource Center, room 204 (@ Richard Barr Boardroom). NMSR Reports is its official newsletter.

NMSR officers:
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***Harry Murphy**, Physicist, Medical Quackery*

Membership: $**20**/year, includes newsletter, make your check payable to NMSR, send to treasurer (Shelton). Newsletter available in hard-copy and downloadable PDF.

NMSR Advisors:
• *Mark Boslough,*
Physicist (Impacts, Climate Change, Global Warming). Sandia National Labs.
• *Kendrick Frazier*
Editor, Skeptical Inquirer
• *John Geissman*
Professor of Paleomagnetism, UNM
• *Alan Hale*
Southwest Institute for Space Research
• *Randy Thornhill*
Professor of Biology, UNM

Cyber-Cypher Clue: W = P.
Bonus Puzzle Clue: Write out as an equation, then solve!

WANTED: READER ARTICLES & COMMENTARY

Got something to share with NMSR members? Send it in! ATTN: Dave Thomas, Editor, NMSR Reports.

REMEMBER, our next NMSR meeting is at 7 PM on **WEDNESDAY, JANUARY 11th, 2017**, at Student Resource Center, room 204 **at CNM!**

PUZZLE TIME!

[*Please send solutions to Dave Thomas at: nmsrdave@swcp.com, or at 801 Fitch Ave., Socorro NM 87801.]*

Cyber-Cypher: JANUARY PUZZLE

(Submitted by Dave Thomas)

The following letters are a simple substitution cypher. If R stands for L, R will stand for L everywhere. Your Cyber-Cypher Clue: Clue? Oh, well - if you must, see p. 2.

"PY DLNRF YGR LQN BHHN PXMQRSPKBZ ALZ." - MGQPF GLQYDLX, HX NRX GLD'F FRLFHXLB "YLNR YGR QLPXKHI KLMN" BPAGYF SPFWBLZ OHQ YGR LQN RXMHCXYRQ PX NRXYCMNZ.

SUPER SECRET WORD!

However you prefer to do the cypher itself (above or below), simply duplicate those actions on the alphabetized row of cypher letters below. You'll build an answer key, and you'll also reveal - the Super Secret Word!

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

DECEMBER CYPHER SOLUTION

"THERE'S NO SUCH THING, UNFORTUNATELY, ANYMORE AS FACTS." - BY DONALD TRUMP SUPPORTER AND CNN COMMENTATOR SCOTTIE NELL HUGHES, ON "THE DIANE REHM SHOW"

Esteemed December Code Crackers: Mike Arms*, Hari Seldon*. *Secret Word: "SUITABLE FROWN"

Need more Secret Word Cryptograms?

SOCORRO STUMPER

New puzzles every week at www.nmsr.org/SocorroStumper.htm

January Bonus: "Keys to the Answer"

Submitted by Dave Thomas

Consider the calculator at right. Assume that some non-zero number such as 1.0 has been placed into memory (MRC = memory recall). Now, consider the following sequence of calculator key strokes.

The January Bonus: if the sequence above is repeated *many* times, what is the eventual value of MRC, and how is that related to the first key in the sequence (7)?

December Bonus: "Electoral College Nightmare"

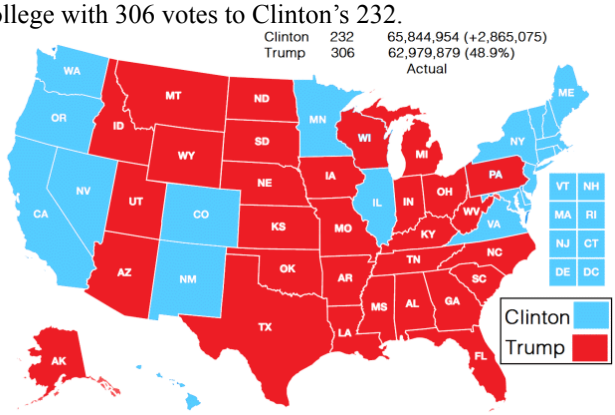
Submitted by Mike Arms

The December Bonus: For the 2016 US Presidential Election, what is the maximum difference in the Popular Vote that could still result in a losing Electoral Vote?

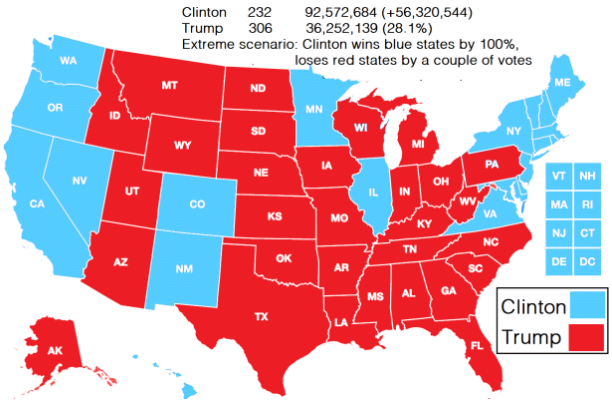
(Data are available at www.nmsr.org/electoral.xls.)

Solutions (scaled to actual 2016 totals):

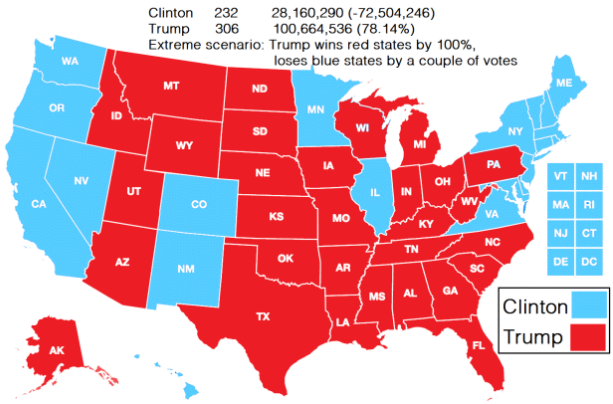
Here are the actual results: note that Clinton received 2.8 million more votes than Trump, who won in the electoral college with 306 votes to Clinton's 232.



Here is an Extreme Scenario with the same red/blue states as the actual election. Here, Clinton wins blue states by 100%, and loses red states by a couple of votes. Note that Clinton receives 56 million more votes than Trump, who wins his 306 electoral votes with just 28% of the popular vote.

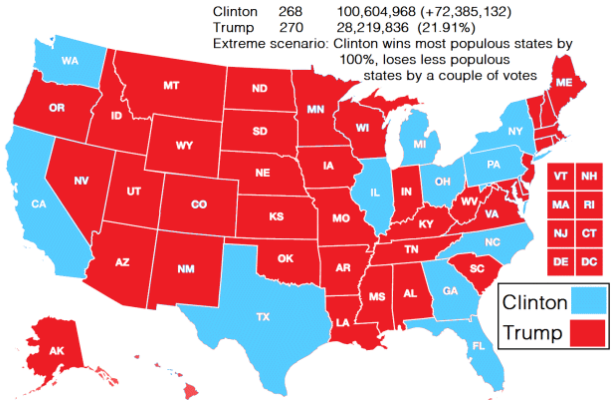


Here is another Extreme Scenario with the same red/blue states as the actual election. Here, Trump wins red states by 100%, and loses blue states by a couple of votes. Note that Trump receives 72 million more votes than Clinton, and wins his 306 electoral votes with 78% of the popular vote.

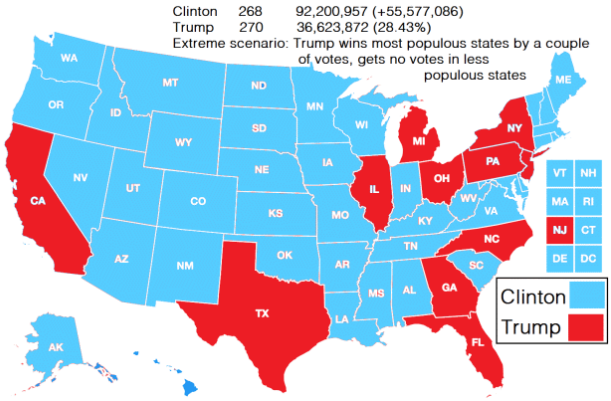


In the following Most Extreme scenario, Clinton wins the most populous states by 100%, and loses less populous states by a couple of votes. Note that ***Clinton receives 72 million more votes than Trump***, who wins his marginal 270

electoral votes with just 22% of the popular vote. (Congrats: Eric Hanczyc (WA), Mike Arms (NM)).



In this final Very Extreme scenario: Trump wins the most populous states by a couple of votes, and gets no votes in less populous states. Note that Clinton receives 55 million more votes than Trump, who wins his marginal 270 electoral votes with just 28% of the popular vote. (Congrats: Brian Pasko (NM))



December 14th , 2016 NMSR Meeting: Ken Frazier and Dave Thomas on "CSICON Las Vegas."

Ken and Dave reported on **CSICON 2016**, held .**October 27th-30th, 2016 in Las Vegas, NV.**

You can peruse the schedule of speakers and talks here: http://www.csiconference.org/

NMSR thanks Ken and Dave for a stirring presentation.

DUES - check the date on your mailing label. If it's time for you to renew, or to make a contribution, please send a check to NANCY SHELTON, NMSR Treasurer,
11617 Snowheights NE, Albuq., NM 87112
Name _____
Address_____
Membership $20 *per annum**
On the Net? Ask for the Paperless NMSR Reports! Send an email to nmsrdave@swcp.com "Dave Thomas"
**For Renewals that are above the $20 annual amount, the excess will be applied to the NMSR budget. Thanks!*

The NMSR e-mail list is fun! It's an e-mail list with news announcements of interest to NMSR members, discussions about news of the times, and more. To join, send a request to nmsrdave@swcp.com.

Thanks to: Mike Arms, John Covan, Eddy Jacobs, Nancy Shelton, Debbie Thomas, and all our Puzzlers!

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Rob Kryder
Weds. Jan 11, 7PM

CNM SRC
Room 204

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