



# NMSR Reports

## The Newsletter of the New Mexicans for Science and Reason

NMSR Reports, David E. Thomas, Editor, 1201 N. Avenida de Chamiso Pl., Socorro, NM 87801 © 2021


**SEPTEMBER MEETING:  
NEW MEXICANS FOR SCIENCE AND  
REASON will discuss  
Ivermectin and Covid: Miracle  
Cure or Dangerous Distraction ?  
=>September 8<sup>th</sup>, 2021 7:00PM<=  
=>Attend online!<=**

### FUTURE MEETINGS ANNOUNCED!

#### September 8<sup>th</sup>, 2021 NMSR Meeting: Ivermectin and Covid: Miracle Cure or Dangerous Distraction ?”

NMSR is convening a panel discussion on ivermectin as it relates to treating COVID. In response to widespread home use of ivermectin to treat COVID 19, the FDA announced on August 21<sup>st</sup> “*You are not a horse. You are not a cow. Seriously, y'all. Stop it.*”. While ivermectin is used to de-worm horses and other large animals, it also has therapeutic uses for reducing inflammation. These were mentioned in a tweet from CD2 representative Yvette Herrell (R-NM).

Rep. Herrell’s tweet links to an article published by the National Center for Biotechnology Information via the National Library of Medicine - National Institutes of Health, titled “Review of the Emerging Evidence Demonstrating the Efficacy of Ivermectin in the Prophylaxis and Treatment of COVID-19”, Pierre Kory, MD, Gianfranco Umberto

 **Rep. Yvette Herrell**   
@RepHerrell  
Despite clear studies ([tinyurl.com/3tydf26a](https://tinyurl.com/3tydf26a)) showing possible applications of Ivermectin in helping against COVID, Joe Biden's party would rather politicize medicine.

Don't take horse dewormer. Do encourage research/tests with Ivermectin by doctors. It's that simple. <https://twitter.com/NMDEMS/status/1432477685637267456>

 **Review of the Emerging Evid...**  
After COVID-19 emerged on U...  
[ncbi.nlm.nih.gov](https://ncbi.nlm.nih.gov)

Meduri, MD, Joseph Varon, MD, Jose Iglesias, DO, and Paul E. Marik, MD. Lead author Kory leads a coalition called Front-Line Covid-19 Critical Care Alliance of Madison, WI (FLCCC).

While Kory is not a member of another pro-ivermectin group, America's Frontline Doctors (AFLD), he is frequently cited by this blatant fringe group, which ran a pro-hydroxychloroquine press conference on the steps of the Supreme Court building on July 27, 2020. Speaking at that event was Dr. Stella Immanuel, known for claiming that venereal diseases are caused by spirit spouses, and that aliens and the Illuminati are secretly controlling society.

Is there a legitimate underbelly to the study of ivermectin and its effects on COVID? Tune in on the 8<sup>th</sup> for a proper discussion.

Because of the ongoing Corona virus crisis, this meeting will be held online, and members can attend from their homes or offices. It will be hosted on Zoom. A Zoom Link will be sent out to all members and potential attendees before the meeting. To get added to the attendee list, simply **email [nmsrdave@swcp.com](mailto:nmsrdave@swcp.com)**.

Tune in to Zoom at **7:00 PM September 8<sup>th</sup>, 2021, On Line!**

#### October 20<sup>th</sup>, 2021 NMSR Meeting: Larry Crumpler on “Update from Mars: Perseverance, Ingenuity and More”

You don't want to miss this one!



**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 a secure, undisclosed location. NMSR Reports is its official newsletter.

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Membership: \$25/year (hardcopy newsletter), or \$15/year (downloadable PDF), make your check **payable to NMSR**, send to treasurer (Debbie Thomas).

**NMSR Advisors:**

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

**Cyber-Cypher Clue:** S = X, X = M

**Bonus Puzzle Clue:** Stick to the facts and you can succeed.

**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 **ONLINE, September 8<sup>th</sup> at 7PM, on Zoom!**



**PUZZLE TIME!**

[Please send solutions to Dave Thomas at: [nmsrdave@swcp.com](mailto:nmsrdave@swcp.com), or at 1201 N Avenida de Chamiso Pl., Socorro NM 87801.]

**Cyber-Cypher: SEPTEMBER 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.

" P M B O B    N O B    C J    O E I B F ,    J C I U  
 P M B    Z O D C L D Z I B F    J H    D C P B A O D P U  
 N C T    J W V B L P D Y D P U ,    K D P M    N  
 L J X Z I B P B    O B V B L P D J C    J H    N I I  
 N E P M J O D P U    B S L B Z P    P M N P    J H  
 H N L P . "    -    V J B I    M .  
 M D I T B W O N C T ,    J C    F L D B C L B .

**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

**AUGUST CYPHER SOLUTION**

"IS THERE ANYTHING THAT THE NATIONAL FOREST SERVICE OR BLM CAN DO TO CHANGE THE COURSE OF THE MOON'S ORBIT OR THE EARTH'S ORBIT AROUND THE SUN?" - REP. LOUIE GOHMERT (R-TEX.)

Esteemed September Code Crackers: Mike Arms\*, David Kinder\*, and Austin Moede\*!

\*Secret Word: "GOVERN DISPUTABLY"

**SOCORRO STUMPER**

**Need more Secret Word Cryptograms?**

New puzzles every week at  
[www.nmsr.org/SocorroStumper.htm](http://www.nmsr.org/SocorroStumper.htm)

**September Bonus: "Multiple Choice"**

*Submitted by Dave Thomas*

(1) If you choose an answer to this question at random, what is the chance you will be correct?

- A      B      C      D      E
- 0%    20%    25%    50%    75%.

(2) If you choose an answer to this question at random, what is the chance you will be correct?

- A      B      C      D
- 0%    20%    50%    75%.

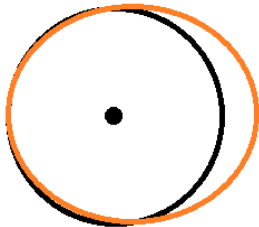
## August Bonus Solution: “G-Whiz Legislation”

Submitted by Dave Thomas

An amendment to a huge omnibus spending bill, submitted by Rep. Louie Gohmert (R-Texas), was adopted when the bill passed both houses, and was promptly signed into law by President Biden. The bill came to 15,427 pages in length. It seems few noticed the obscure amendment, lurking inside a section on COVID relief for Antarctic penguins. The amendment reads “*As a means to mitigate climate change, the value of The Universal Constant,  $G$ , is hereby mandated to be reduced by 5%, to  $6.340376 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$ , at the stroke of midnight on December 21<sup>st</sup>, 2021.*” Surprisingly, God (he/him/his), who is notorious for being indifferent to prayer, was moved to enact this particular mandate. Aides were rumored to have heard the Lord mumbling to himself “*Hoo boy, this gonna be good.*” And so, at midnight on the Solstice, the value of  $G$  was instantaneously reduced by 5%.

**The August Bonus:** What happened? Did the earth’s orbital radius increase, or decrease? And by how much?

**Answer:** Start with the vis-viva equation for the square of the velocity ( $v$ ) of an object in orbit at varying distance  $r$  and semi-major axis  $a$ ,  $v^2 = GM(2/r - 1/a)$ .  $M$  is the mass of the



Sun, and  $G$  is the Universal Gravitational Constant. If  $G$  is suddenly decreased, the quantity inside the parentheses must increase. But, the orbital distance  $r$  doesn’t change, so orbital radius  $a$  must increase. The result is a new, much more elliptical orbit for

Earth, with perihelion at near our current radius (150 million kilometers), and aphelion from 166 to 168 million kilometers. If you thought winters are bad now, just wait! They would be *much* worse. Oh, and we lose the moon after a few months, when it leaves Earth for its own orbit.

**Congrats:** Earl Dombroski (NM)!

## August 11<sup>th</sup>, 2021 NMSR Meeting: James Gover on Congressional Tech Options

James Gover, an IEEE Life Fellow from Rio Rancho, spoke on “What Should New Mexico, Albuquerque and the NM Congressional Delegation Be Emphasizing?” His top-level strategy for doing this involves the following points.

- Support Strategic Planning for NM
- Shun Important National Political Issues That Are of Low Relevance to New Mexico
- Emphasize Technology’s Role in Economic Growth
- Capitalize on Biden Administration SXT Bills
- Build on NM’s Greatest Economic Asset – Federal R&D Funding

Jim then discussed the “Big Economic Disrupters Going Forward.” Military and Economic Competition Between US and China is a big one, with the following considerations:



- Driving US Legislation, e.g., United States Innovation and Competition Act
- Drive Work at New Mexico National Laboratories
- Imperative to Engage All Americans in Economic Growth
- Reconstructed Supply Lines
- Bringing Back Manufacturing – Buy USA Made
- New Era of Industrial Policy

Other major disrupters include Climate Change, Pandemics, the Fourth Industrial Revolution, and Major Domestic Issues, e.g., Infrastructure.

Gover said that Cities, not nation states, will determine our economic future. Half of humanity currently lives in one. Two thirds of the world’s population will be urban dwellers by 2030, and today, cities power over two-thirds of global GDP; they are marvels of innovation and engines for prosperity. “How can all cities and rural areas grow economies at the rate of cities built on high-tech business?” he asked. “Building a high tech economy” is the way forward.

These are the “Key Focus Technologies for US” regarding China and Economic and Military Competition:

1. Artificial Intelligence and Machine Learning;
2. High Performance Computing, Semiconductors, and Advanced Computer Hardware;
3. Quantum Computing and Information Systems;
4. Robotics, Automation, and Advanced Manufacturing;
5. Natural or Anthropogenic Disaster Prevention;
6. Advanced Communications Technology (5G);
7. Biotechnology, Genomics, and Synthetic Biology;
8. Cybersecurity, Data Storage, and Data Management Technologies;
9. Advanced Energy; and
10. Materials Science, Engineering, and Exploration relevant to the other key technology focus areas described here.

Jim then talked about “Seven Cross-Industry Technology Trends Will Disrupt Company Strategy, Organization and Operations”. These include

- 1 A. Next-level process automation Industrial IoT, Robots, cobots, RPA3
- B. Process virtualization, Digital twins 3-D/4-D printing
2. Future of connectivity - 5G and IoT (Internet of Things) connectivity
- 3 Distributed infrastructure - Cloud & edge computing
- 4 Nextgeneration computing - Quantum computing ASICs4
- 5 Applied AI - Computer vision, natural-language processing, and speech technology
- 6 Future of programming - Software 2.0
- 7 Trust architecture - Zero-trust security Blockchain

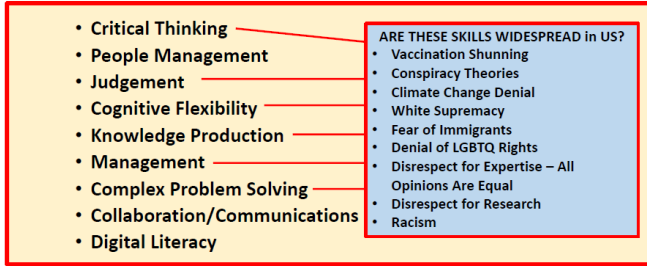
Jim noted that three industry-specific technology

trends can “Help Solve Humanity’s Biggest Challenges” :

- 8 Bio Revolution - Biomolecules/“-omics”, Biosystems, Biomachines/biocomputing/augmentation
- 9 Next-generation materials - Nanomaterials, graphene and 2-D materials, and molybdenum disulfide nanoparticles
- 10 Future of clean technologies - Nuclear fusion, Smart distribution/metering, Battery/battery storage, Carbon-neutral energy generation.

Jim discussed the skills that will be needed in the coming 4<sup>th</sup> Industrial Revolution.

**Core Skills of Fourth Industrial Revolution (4IR) Worker:**



Jim declared that the greater Albuquerque Metro Area should focus on six Industries:

In Aerospace, Capitalize on The Exceptional Research & Development Capabilities in The Region

- Trips to Space
- Space Mining/Colonization
- Satellite Launch
- Space Militarization

In Biosciences, Convert Research & Development Technologies into The Development of Local Businesses

- Medical Devices
- High Productivity Services
- Digital Healthcare

In Renewable Energy, Become the Green Energy Capital of the United States and the Model for Other Markets in the Future

- Low Cost Electricity for Data Centers
- Accelerated Path to Carbon Neutrality

In Digital Media & Film, Market the Albuquerque Region’s Tremendous Advantages Versus Traditional Filming Locations & Become the HQs of Digital Media & Film

- Digital Media Technology
- Digital Media Services

In Corporate & Professional Services, Capitalize on Current Trend and Attract Middle Office (professional jobs) to the Region

- SaaS
- IT

In Manufacturing, Focus on Reshoring and Onshoring Opportunities

- Semiconductor Chips
- Green Energy Technology
- Incentives to Relocate from Off-Shore

Jim Gover concluded by saying that we need Strategic Plan for Each Industry Sector!

NMSR thanks James Gover for a fascinating presentation. **Videos of this and other meetings are available at <http://www.nmsr.org/meetings.htm>.**

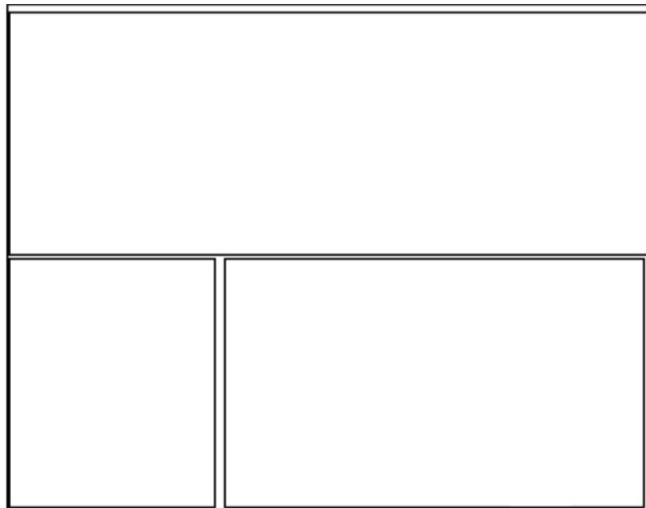
DUES check the date on your mailing label. If it's time for you to renew, or to make a contribution, please make your check **payable to NMSR**, and send it to Debbie Thomas, NMSR Treasurer, 3205 Alcazar NE, Albuquerque., NM 87110

Name \_\_\_\_\_  
Address \_\_\_\_\_

*Membership \$25 per annum (hard copy newsletter), or \$15 per annum (online newsletter).*

**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](mailto:nmsrdave@swcp.com).**

Thanks to: John Covan, Eddy Jacobs, Debbie Thomas, Earl Dombrowski and all of our Puzzlers!



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*IN THIS ISSUE:*  
Future Meetings  
Announced  
New Puzzles!

August Meeting -  
Jim Gover

September  
Meeting:  
Ivermectin Panel  
Weds 8<sup>th</sup> 7PM  
Online/Zoom