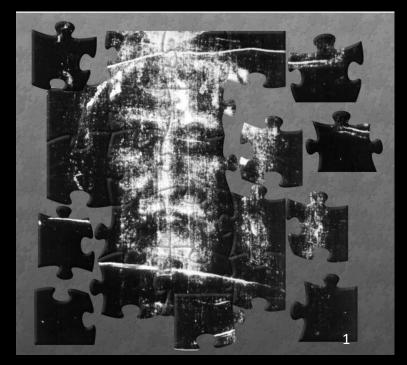
## The Shroud of Turin an Enduring Mystery Part 5: Integration & Conclusions

Dr. Ray Schneider, P.E., Ph.D. Associate Professor Emeritus Bridgewater College, Virginia



## Where Are You Going?

- Peter is said to have encountered Jesus carrying his cross towards the city of Rome as Peter fled Nero's persecution.
- Peter said "*Quo Vadis Domine*?"
   Where are you going Lord?
- This is a question we should contemplate as we sum up our investigations of the Shroud of Turin



## The Path We've Traveled

• Religion —> Science —> History—>Image

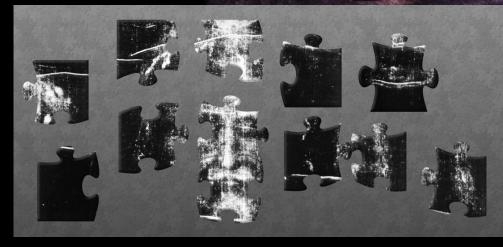
• TODAY

- Weighing the Evidence
- Russ Breaut's Christian Perspective
- Thoughts For The Future
  - New Results
  - Where Things Might Go
- The Final Challenge

## Weighing The Evidence

- Direct Observation
  - Witnesses
- Correct Interpretation

   Understanding

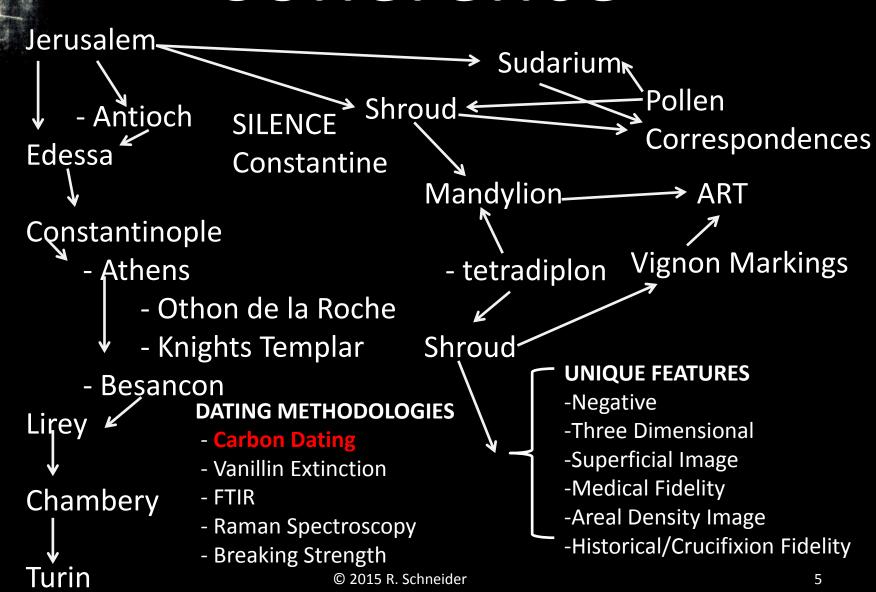


- Correspondences With Other Known Truths
  - Correlation and Explanatory Principles
- Coherence
  - It All Fits Together

## What Is Truth?

Pilate's Question

# Coherence

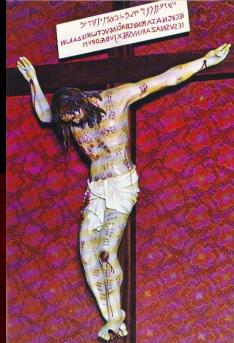


# Coherence

- Religion
  - Beaten
  - Scourged
  - Crowned with thorns
  - Carried his cross
    - falling
  - Nailed to the cross
    - through the wrists
  - Died
  - Pierced
  - Buried
  - RAISED

A Blood Moon An Empty Tomb

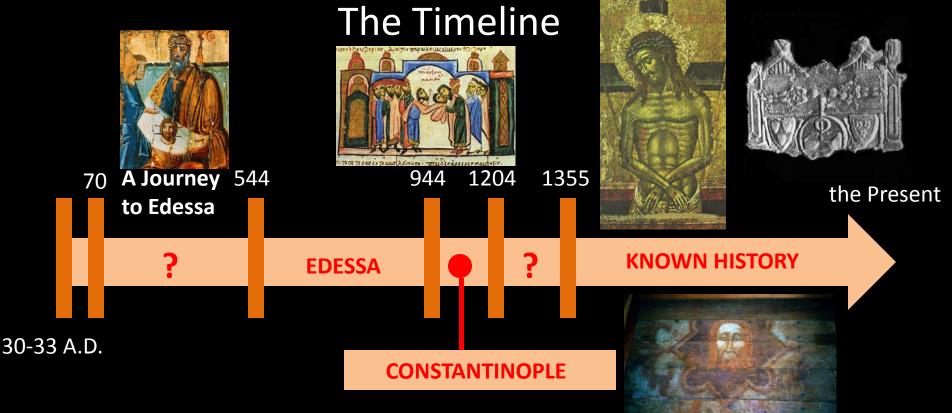
© 2015 R. Schneider



Authenticity

A Cloth That Wrappe His Head

# Coherence History — A Thread of Reality from an Empty Tomb to a Journey from Jerusalem to Europe



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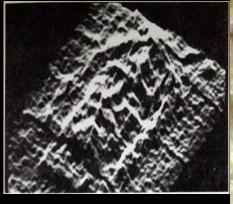
**A Templar Connection** 

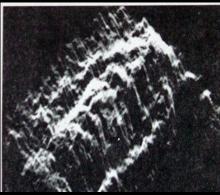
7

# Coherence

### The Challenge of the Image

- Negative
- Superficial
- Three Dimensional
- Areal Density
- Resolution





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## Who Do Men Say That I Am?

Is There A Message We're Missing?

## **Russ Breault Thinks So**

## Russ Breault's Seven Secrets

- Beyond Science/ Beyond History
- Seven Key Concepts
- Shroud Reflects The Light Of Scripture
- Soooooo.....
  - The Seven Concepts Are Derived
     Directly From Russ Breault's
     Shroud Encounter: Seven Secrets
    - I've only condensed his presentation

## Concept One

- Is There A Message In The Mystery?
  - The Irony
    - If the shroud were merely a work of art we'd have figured it out years ago. After thousands of hours of analysis: It Remains A Mystery!
    - An Argument for Authenticity
  - All The Deep Things of God are MYSTERIES
    - Incarnation, Resurrection, Calm a Storm, Feed 5,000 with a few fish and loaves ...
- Maybe The Mystery Is The Message

## Concept Two



- When Is A Scorch NOT A Scorch?
  - Nature of the Shroud Image
    - no pigment, superficial, looks like a scorch but image does not fluoresce under UV while scorches do, so image not caused by heat.
  - Reminds You Of Other Appearances
- When Is A Wind Not A Wind? Pentecost As The Spirit Descends
- When Is A Fire Not A Fire? Tongues of Fire and Burning Bushes
  - Moses Came Down From The Mountain, His Face Radiant
- Clues to the Shroud Image?

 $\bullet$ 

- WHEN IT IS LIGHT AND NOT HEAT?
  - LIGHT THE FIRST ACT OF CREATION
    - And of course the Transfiguration

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### **Concept Three**

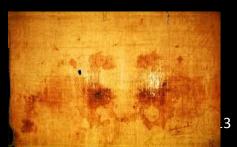
### The Witness



- Biblical Principle: The Truth of Any Matter is Established by the Testimony of Two or Three Witnesses
  - The best single reason why the shroud must be authentic.
  - Every Miracle of Jesus Had Numerous Eye Witnesses
    - All His Appearances After the Resurrection too!
  - But NO Eyewitnesses For The Resurrection Itself? What!?
    - Preposterous! God doesn't violate His own word. The most significant miracle of them all! There must be two or three witnesses. We just have to find them.
  - First Witness: THE EMPTY TOMB
  - Second Witness: THE VACANT BURIAL SHROUD
  - Third Witness: THE NAPKIN THAT WAS AROUND HIS HEAD
    - The Sudarium of Oviedo

### - ALL THREE GIVE WITNESS STILL TODAY

A Witness For All Generations



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## Concept Four

### **Proof Of Purchase (Four Words)**

- Bought "You are not your own; you were bought at a price." 1 Cor 6: 19-20
- Purchased "Therefore take heed to yourselves and to all the flock ... which he purchased with His own blood." Acts 20:28
- Redeemed "Knowing that you were not redeemed with corruptible things, *like* silver or gold ... but with the precious blood of Christ ... " 1 Peter 1: 18-19
- Ransom "For even the Son of Man did not come to be served but to serve, and to give his life as a ransom for many." Mark 10:45
- A Transaction Has Occurred. A Payment Has Been Made On Our Behalf. So Where Is The Receipt?
  - Shows the price that was paid and after than proof of purchase
- The Shroud of Turin is not only a receipt, it is an itemized receipt.
  - Crown of Thorns, Wound in Side, Severe Scourging, Nail Wounds in Hands and Feet
- Proof of Purchase: We Have Been Purchased, We Belong To Christ, and We Have A Receipt to Prove it! PAID IN FULL

## **Concept Five**

### The Theology of Linen

- Significant Meaning From Genesis to Revelation
  - Jesus' Life Beging in Swaddling Clothes and Ends in a Burial Shroud
  - Fine Twisted Linen mandated for the tabernacle (Ex 26:1) required for priestly tunics (Ex 39:27) David clothed in fine linen (1 Chron 15:27) Seven angels clothed in spotless white linen (Rev 15:5-6) Wedding of the Lamb, the **bride** wears fine linen bright and clean (Rev 19: 7-8)

The Shroud is Fine Twisted Linen (expensive and rare)

- The Answer Wrapped Up In Joseph of Arimathea
  - A Pharisee, Connected with Temple, Access to the Temple Store, Did He Purchase a Cloth of "fine twisted linen" to Send a Message?

... we have a great high priest
 who has ascended into heaven,
 Jesus the Son of God, ... (Heb 4:14)

A Clue to the True Identity of Jesus?

- Joseph of Arimathea was a Pharisee
- He was connected with the temple
- He had access to the temple store
- Did he purchase a cloth made of "fine twisted linen" to send a message?
- Did he purposely wrap Jesus in linen worthy of a high priest about to enter the Holy of Holies?



# Concept Six

### Transformation

- Is the Shroud a Sign? For What Purpose?
  - Thoughts on the First Miracle: Water to Wine
  - A sign of Transformation: the effect of the ministry — The Message of Transformation
  - First of the Signs Through Which He Revealed His Glory ... John 2:11
  - ... these are written that you may believe ... the purpose of the Word and the Shroud are the same. ... believing you may have life in His name ... John 20:30-31
- A Sign of Transformation — Water, Blood, Spirit

# Transformation

### Transformed by the Power of the Spirit

### Initial Transformation (water to wine)

 And we all, who with unveiled faces contemplate the Lord's glory, are being <u>transformed</u> into his image with everincreasing glory, which comes from the Lord, who is the Spirit. 2 Corinthians 3:18

#### Ultimate Transformation (resurrection)

 And if the Spirit of him who raised Jesus from the dead is living in you, he who raised Christ from the dead will also give life to your mortal bodies because of his Spirit who lives in you. Romans 8:11



## Concept Seven

### • The Face

- Old Testament: No one ever saw the Face of God
  - Moses said: "Now show me Your GLORY." and God replied "You cannot see My FACE for no one may see me and live ... you may see My back, but My FACE must not be seen." Exodus 33:18-23
  - New Testament:

# Everything Changes

- "The Word became flesh and made is dwelling among us."
- "We have seen his GLORY of the One and Only, who came from the Father, full of grace and truth." John 1:14



## The Blessing of the Lord

### When the FACE of God Turns Towards you It means Blessing and Favor

### <u>The Blessing of Aaron:</u>

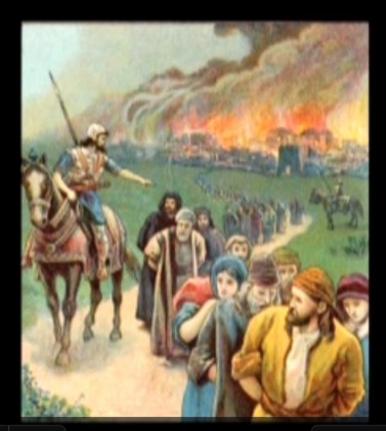
- "The LORD bless you and keep you
- The LORD make his FACE shine upon you and be gracious to you.
- The LORD turn his FACE toward you and give you peace." Numbers 6:24-27



## I Will Set My Face Against You

# BUT bad news for them if He should turn his FACE away.

- I will set my FACE <u>against</u> the person who turns to mediums and spiritists... Leviticus 20:6
- "If you reject my decrees and abhor my laws and fail the carry out my commands and so violate my covenant, I will set my FACE <u>against</u> you so that you will be defeated by your enemies..." Leviticus 26:14-17



### When God Hides His Face: Destruction

 "The Lord said to Moses...They will forsake me and will break the covenant I made with them. On that day, I will become angry with them and forsake them; I will HIDE MY FACE from them and they will be destroyed." Deuteronomy 31:16-17

### David Pleads With God:

 "Do not hide your FACE from me, do not turn your servant away in anger..."
 Psalm 22:9





### **Our Rebellion Turns God's Face Away**

 But your iniquities have separated you from your God; your sins have hidden his FACE from you, so that he will not hear. Isaiah 59:2

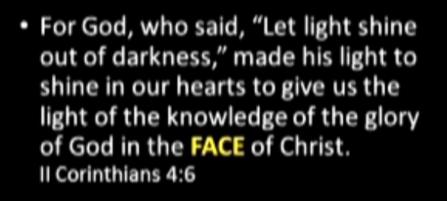
### What We Must Do

 "If my people, who are called by my name, will humble themselves and pray and SEEK MY FACE and turn from their wicked ways, then I will hear from heaven and will forgive their sin and will heal their land." II Chronicles 7:14





## The FACE of Christ To see the FACE of Christ Is to see the GLORY of God



 The GLORY of God is revealed in the FACE of Christ!





## "Show Us The Father"

## Why is the Shroud FACE Significant?



- In Christ, we are fully forgiven and accepted!
- "Therefore, there is now <u>no</u> <u>condemnation</u> for those who are in Christ Jesus, because through Christ Jesus the law of the Spirit who gives life has set you free from the law of sin and death." Romans 8:1-2



## It Is Finished!

### All of God's Judgment for Sin Was placed on Christ—Not on us!

- Seeing the FACE of Christ on the Shroud is a sign of God's acceptance. He is NOT turning or hiding his FACE from us.
- We behold his FACE because He loves us and has freely forgiven us in Christ!



## Unconditional Love With Conditional Acceptance The Capstone Verse

- For God so loved the world that he gave his one and only Son, that whoever should believe in him shall not perish but have eternal life! John 3:16
- God's acceptance is not without condition...we must believe and become followers of Christ.

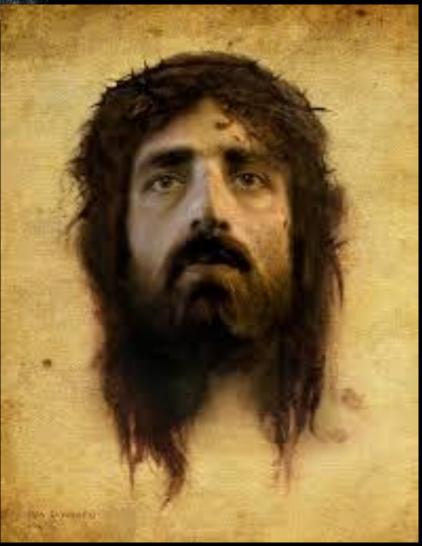


## Opening The Door God has accepted you in Christ. Have you accepted Him?



 Behold, I stand at the door and knock. If anyone hears My voice and opens the door, I will come in to him and dine (fellowship) with him, and he with Me. Revelation 3:20

## Seven Powerful Theological Proofs



- It Remains A Mystery
- When Is A Scorch NOT A Scorch?
- The Witness There Must Be Three Witnesses
- The Shroud Is A RECEIPT A Proof Of Purchase
- It Is Fine Linen Suitable For A High Priest About To Enter The Holy of Holies
- Transformation!
- The Face We Are Totally Accepted In Christ



## Time For A Short Intermission Come Back In Ten Minutes

## **Death & Resurrection**

## The Shroud Clearly Shows Death BUT Does It Also Show Resurrection?

## Remember Two Kinds Of Miracles?

- Miracles of the First Kind
  - Supernatural intervention transcending nature
  - Genesis 1:3 <sup>3</sup> Then God said, "Let there be light"; and there was light. (RESURRECTION?)
- Miracles of the Second Kind
  - A "miraculous result" occurs due to a combination of a large number of individually improbable events which produce an unlikely but spiritually meaningful result (IMAGE?)

### **Two Presentations**

### • From The October 2014 St. Lewis Conference

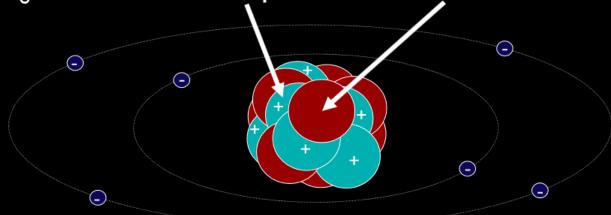
- Robert A. Rucker's Paper, "MCNP Analysis of Neutrons Released from Jesus' Body in the Resurrection" and (Miracle of the First Kind?)
- D.S. Spicer and E.T. Toton's Paper, "Electric Charge Separation as the Mechanism for Image Formation on the Shroud of Turin: A Natural Mechanism" (Miracle of the Second Kind?)

Images from the two papers at the St. Louis Shroud Conference of October 2014 have been 'liberated' and in some cases color inverted for display purposes to give you a summary of the papers. You can find links to the papers at <u>http://www.shroud.com/stlouis.htm</u>

## A Miracle of the First Kind? Neutron Flux Causes C<sup>14</sup> Enrichment <u>What is a Neutron?</u>

<sub>6</sub>C<sup>12</sup> atom has 6 protons and 6 neutrons

<sub>6</sub>C<sup>14</sup> atom has 6 protons and 8 neutrons



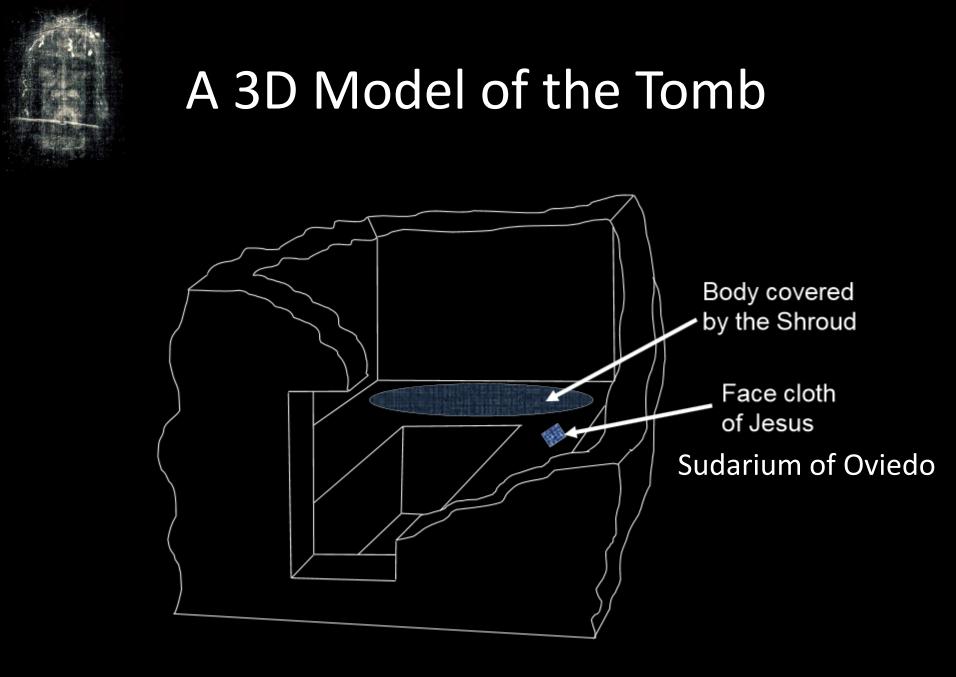
Slides from Robert A. Rucker's Paper "MCNP Analysis of Neutrons Released from Jesus' Body in the Resurrection"

## How Do We Resolve These? There are Three Mysteries

- How can the SOT be authentic if C<sup>14</sup> dating placed its origin in the middle ages?
- Why was there such poor agreement between the C<sup>14</sup> dates for the three SOT samples?
- How can the Sudarium of Oviedo be authentic if C<sup>14</sup> dated it to about 700 AD?

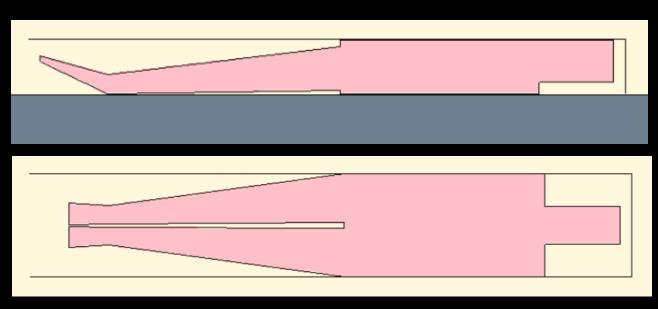
# One Hypothesis To Solve Them All Objective

- To explain these three mysteries with one hypothesis
- Hypothesis: Neutrons were released from Jesus' body in the tomb



#### Simple Volumetric Model of Body

#### SIDE VIEW



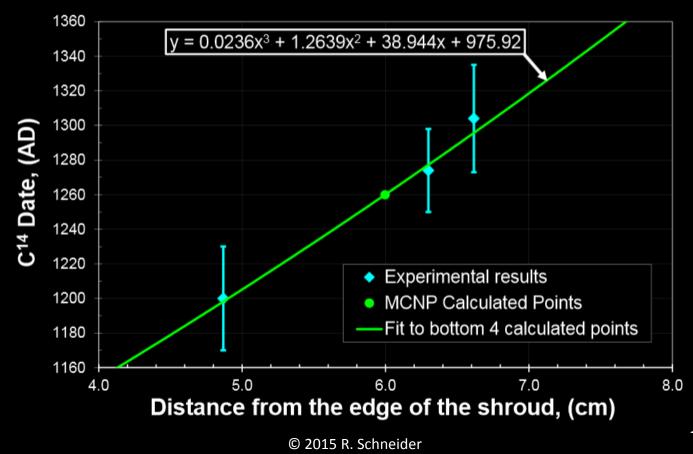
#### **TOP VIEW**

# Predicted Dates By Location <u>Predicted C<sup>14</sup> Dates (AD)</u>

Uncorrecte	ed C-14 Da	ate (AD), C	ases B18	2-B191				Uncorrect	ed C-14 D	ate (AD), (	Cases B18	2-B191			
828	1017	1262	1542	1871	2252	2669	3085	3459	3676	3716	3719	3619	2954	2326	1683
824	1018	1202	1367	1542	1740	1976	2290	2836	3136	3171	3174	3130	2611	2156	1627
875	1086	1272	1436	1638	1841	2075	2408	2762	3012	3038	3033	2995	2525	2068	1571
983	1267	1477	1733	2044	2396	2783	3248	3534	3818	3862	3861	3785	3157	2348	1756
1067	1388	1618	1918	2293	2713	3133	3626	3750	3994	4048	4033	3958	3546	3057	2280
1005	1300	1541	1821	2159	2546	2937	3396	3654	3951	3984	3980	3912	3269	2547	1913
904	1154	1381	1612	1871	2141	2441	2829	3130	3392	3424	3409	3322	2825	2423	1826
866	1110	1363	1613	1884	2204	2590	3089	3897	4316	4379	4341	4166	3416	2620	1952
877	1123	1447	1831	2294	2813	3379	3954	4514	4819	4884	4849	4632	3746	2802	2025
958	1265	1659	2144	2692	3430	4326	5262	6141	6556	6620	6583	6320	4799	2994	2065
1197	1869	2985	4031	4950	5714	6341	6943	7603	8056	8147	8096	7811	5970	3679	2378
1317	2452	4260	5130	5745	6281	6779	7334	7909	8343	8459	8404	8115	6381	4235	2677
1143	1770	2880	3909	4819	5572	6200	6805	7477	7923	8023	7977	7697	5853	3468	2197
894	1136	1454	1853	2320	2997	3841	4760	5699	6081	6168	6161	5936	4462	2623	1789
581	637	693	754	838							1507	1364	1200	1060	925
557	601	638	682	747							1095	1022	947	876	802
532	569	599	627	679							888	843	803	760	700
506	543	566	588	630							764	734	704	678	636
486	514	536	554	588							680	660	640	616	577
458	490	504	523	546							619	599	579	562	534
442	466	480	494	516							568	550	533	520	490
419	441	455	468	491							522	508	496	485	459
405	423	434	444	465							491	478	464	455	429
384	408	416	425	447							460	448	439	429	411
371	393	401	412	426							440	432	420	409	391
356	374	385	393	411							424	411	401	392	374
343	363	372	383	402			© 2015	R. Schn	. Schneider		410	398	387	376	356
322	344	359	370	391							401	387	374	357	333

40

#### Fit To C<sup>14</sup> Results Calculated C<sup>14</sup> Date Curve for Neutron Emission in the Body



#### Summary

The nuclear analysis computer code MCNP was used to show that if  $3.04 \times 10^{18}$  neutrons were released at random locations in Jesus' body, either prior to or during the disappearance of the body, it explains three things:

- The incorrect C<sup>14</sup> date for the shroud
- The slope of C<sup>14</sup> dates across samples
- The incorrect  $C^{14}$  date for the face cloth
- Explaining these three things by one hypothesis (neutrons were released from Jesus' body in the tomb) is strong evidence that the hypothesis is true.
- But additional sampling and testing is required to prove that the hypothesis is true.

#### A Better Protocol for C<sup>14</sup> Sampling

- In the Future This Is Testable With A Better Carbon Fourteen Sampling Protocol
- But This Doesn't Explain The Image

## Explaining the Image with Electric Fields And Polar Molecules

- D.S. Spicer and E.T. Toton's Electric Field Entraining Polar Molecules Offers to Do That
  - Beyond Vignon and Rogers
  - An Electric Vaporograph Theory

#### A Miracle of the Second Kind? A Natural Explanation for the Image • Six Features to Explain

- 1. Images on the cloth exist only of the dorsal and ventral surfaces of body and these images lie only on the fibers found at the extremities of the cloth
- 2. No image or discoloration exists between the two surfaces of cloth, i.e., within the cloth
- 3. There is no image of the top of the head or sides of the body enclosed by the cloth

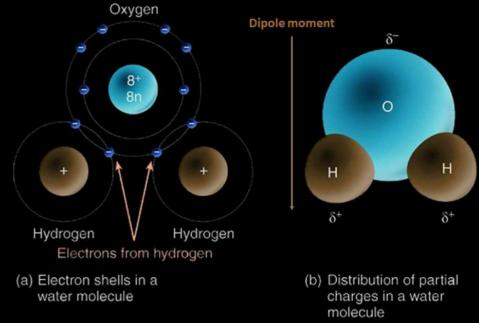
4. The image density on the cloth appears to embody information on the vertical distance between the cloth and the portion of the ventral body imaged, as if the cloth were held flat and horizontal slightly above the body or, in the case of the dorsal image, between the cloth on either the floor or shelf on which the body lied and the back of the body. In essence, the closer the cloth was to the body the darker the image, and the farther away the fainter the image

5. A body image is visible in areas where there was no contact between the body and the cloth

6. The coloration does not appear under the threads where they cross in the weave of the cloth

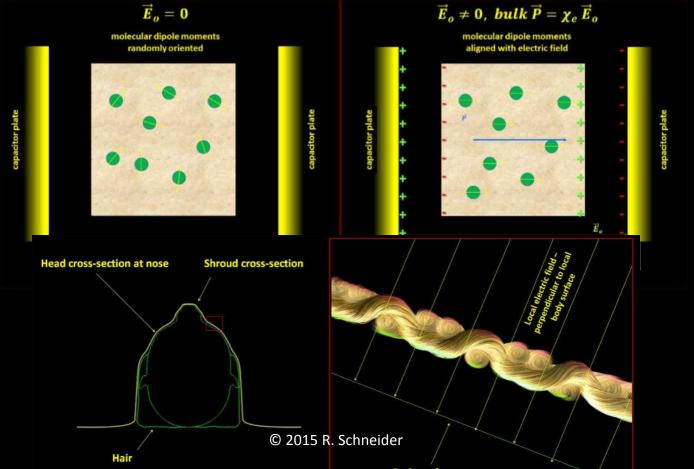
#### Collimation: A Quasi-static Electric Field • An Electric Field and Polar Molecules

Molecule	Dipole Moment (C-m)										
H <sub>2</sub> O (water)	6.17x10 <sup>-30</sup>										
NH <sub>3</sub> (ammonia)	4.82x10 <sup>-30</sup>										
(NH <sub>2</sub> ) <sub>2</sub> CO (urea)	1.50x10 <sup>-29</sup>										



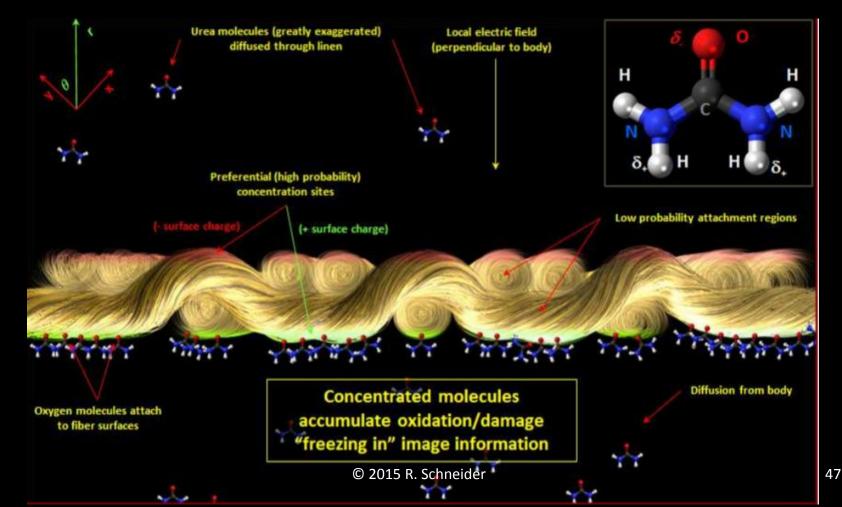
...the urea molecule has a large polar moment, when it diffuses from the body the end of the molecule with a complementary charge preferentially attaches to the molecular charge exposed on the outer surfaces of the dielectric cloth.

# Entrained Polar Molecules Selectively Attach to Surface of Cloth **Resolution**



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# Interaction Selectively Oxidizes the Linen Freezing In the Image Polar molecule entrainment and surface response



#### Testing the Hypothesis

- Given the theory the whole process could be numerically simulated using a large computer code
- It might be easier however to actually test the hypothesis experimentally with a model, urea, and a cloth
- This is an example of a Miracle of the Second Kind, multiple relatively rare factors combining to produce an unexpected and religiously significant result

# Moving On

- We'll Look At Two More Interesting Things
- Better Images With Meaningful Data
  - What if we had a complete high resolution image of the shroud at the resolution of the Mark Evans micrographs? Suppose it was a high resolution multispectral image. What could we do?
- What If We Could Actually Identify The Man?
  - DNA? But we don't have a reference sample of Jesus's DNA ... How Would That Work?

# HAL 9000 Images

The most recent image of the shroud is that taken by HAL 9000, a company specializing in art photography that obtained permission to take an extraordinarily high definition composite image of the shroud on 22 January 2008. This image is composited from over 1600 credit card sized images for a total image of 12.8 billion pixels. It amounts to about 72 gigabytes of image data.

## HAL 9000 Images

Contrast HAL 9000 image with Durante 2002 from Shroud Scope, second HAL 9000 image equalized version of first

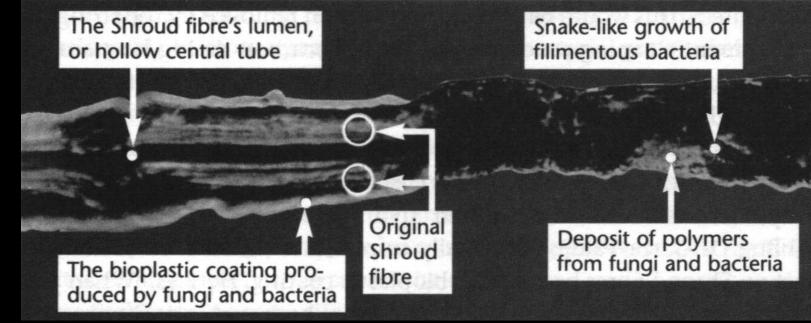


#### http://www.haltadefinizione.com/en/the-shroud.html

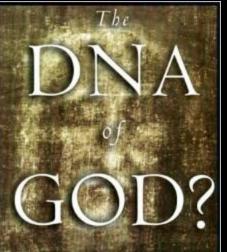


## Unfortunately

- The HAL 9000 images have not been released to researchers and they are not multispectral
- Still they are the best available until better images come along
- An iPad app has been introduced called Shroud 2.0 but images are heavily watermarked and not very useful to researchers.



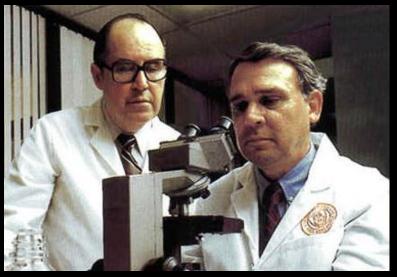
#### Dr. Leoncio A. Garza-Valdes (1939-2010)



THE TRUE STORY OF THE SCIENTIST WHO REESTABLISHED THE CASE FOR THE AUTHENTICITY OF THE SHROUD OF TURIN AND DISCOVERED ITS INCREDIBLE SECRETS

DR. LEONCIO A. GARZA-VALDES

Suggested that bacterial deposits very resistant to chemical cleaning produced impurities on the C14 samples which could substantially skew the carbon dates.



#### What About DNA?

There is undoubtedly a lot of DNA on the shroud from a lot of different individuals

What can we know for sure?

# The Blood On The Shroud

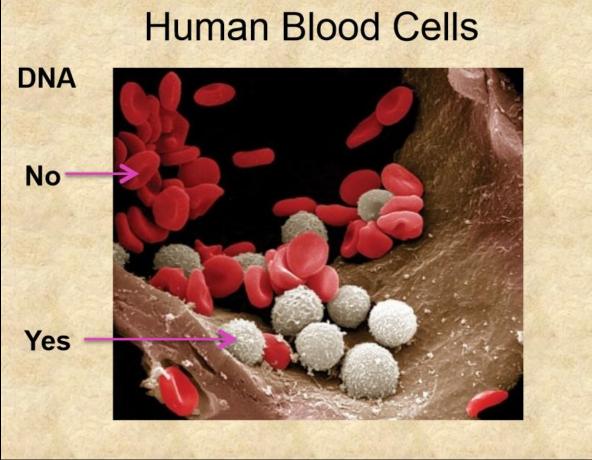
 "A Critical (Re)evaluation of the Shroud of Turin Blood Data:Strength of Evidence in the Characterization of the Bloodstains"

Presented by Kelly P. Kearse, Ph.D.

- He reviewed a lot about the fact that the blood is human blood and that it is type AB
- Then he talked about DNA

## No DNA In Red Blood Cells

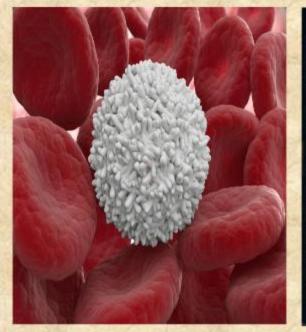
#### DNA in White Blood Cells, about 1% of Blood

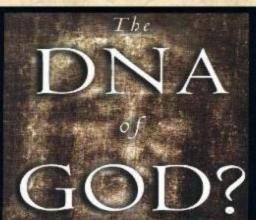


## Can't Tell Where It Came From

Comparing from multiple sites would help

#### Human DNA has been isolated from bloodstained fibers of the Shroud

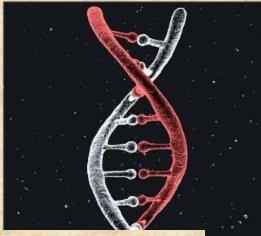




THE TRUE STORY OF THE SCIENTIST WH REFETABLISHED THE CASE FOR THE AUTHENTICITY OF THE SHROUD OF TURI AND DISCOVERED ITS INCREDIBLE SECRE

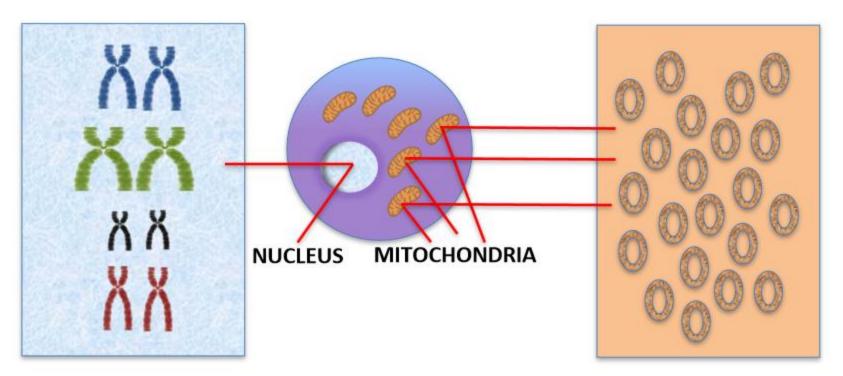
Dr. Leoncio A. Garza-Vall







#### Two Kinds Of DNA



NUCLEAR DNA

2 COPIES PER CELL 20,000-30,000 TOTAL GENES MITOCHONDRIAL DNA

100-10,000 COPIES PER CELL 37 TOTAL GENES

#### **Connecting The Dots**

Multiple Samples From Same Artifact

- Multiple Samples From Different Related Artifacts
- The Connecting Link: Common DNA From The Same Individual
  - Nuclear DNA Inherited from Both Parents
  - Mitochondrial DNA Inherited from Mother
- Comparing DNA from the Shroud and the Sudarium as well as other possible relics could demonstrate that a single individual was common to multiple relics (validating the relic and isolating the individual)

#### Bruno Barberis President of the International Center of Sindonology Turin

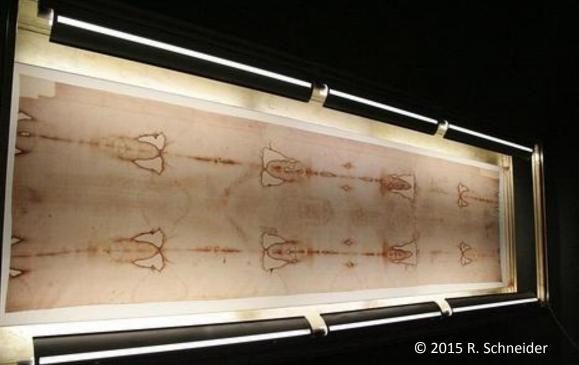


Barberis recently said: "We need new data if we want to continue in the search", and **proposes "to organize a real laboratory around the Shroud"** 

#### The Future Awaits

• There Are Still Many Avenues Of Exploration

 Further Clarification of the History and Science Can Only Increase Our Understanding Casting Light On This Enduring Mystery



# Who Do You Say That "I Am"?

- Perhaps I've Only Served To Increase Your Mystification
- What Is The Shroud of Turin?
   RELIC or ICON
- What Does It Mean?
   Finally,
   You Must
   Decide



#### A Plug for STERA

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