

## Recently Published Papers & Articles

November 2023

[STURP Members' Quotations from Early Popular Secular and Religious Literature](#) by **Joseph G. Marino** – *Academia.edu* – September 23, 2023 – Here is an excerpt from the introduction: “The Shroud of Turin Research Project (STURP) was a group of mainly U.S. that did an intensive study on the Shroud... In 1978 scientists performed direct testing of the Shroud for five straight days and one-hundred twenty consecutive hours. They published numerous peer-reviewed journal papers in the early 1980s. It was the only in-depth scientific examination ever conducted on the Shroud. They concluded that the images were not the product of an artist...”

[Inadequacies in Serological ABO Typing of Ancient Artifacts: The Shroud of Turin as a Case Example](#) by **Kelly Kearse** – *International Journal of Forensic Sciences*, Volume 8 Issue 3 – September 11, 2023 – Here is an excerpt from the abstract: “...It is widely reported that the Shroud bloodstains are blood type AB, based on previous findings that were never published in a peer-reviewed format. Here, the shortfalls of using serological testing for ABO determination of ancient objects are discussed using the Shroud of Turin as a case example. It is determined that the AB designation for the Shroud bloodstains is inconclusive and should be considered as type unknown pending further testing.”

[A Simple, Natural Mechanism for the Transfer of Dry Bloodstains onto the Shroud of Turin](#) by **Kelly Kearse** – *International Journal of Archaeology*, Volume 11 Issue 2 – September 8, 2023 – Here is an excerpt from the abstract: “...The bloodstains have been demonstrated to contain authentic blood components including hemoglobin, albumin, and immunoglobulin, although the species of origin remains to be determined. Controversy exists regarding the proposed blood transfer from a body to the cloth, particularly if certain bloodstains occurred in a dry state. The suggestion has been made that dried blood was thrust onto the cloth by a brief radiation burst emitted from the body, although demonstration of such a process is lacking. Here, a simple, natural mechanism is shown that could account for the imprinting of dried bloodstains onto the Shroud...”

[Combining Environmental Factors and Historical Climate Data with Gospel Writings to Estimate Transpirable Time from Death on the Cross to the Resurrection](#) by **William Lauto** – *Pontifical Athenaeum Regina Apostolorum Science and Faith Institute* – September 2023 – Here is an excerpt from the introduction: “Ascertaining a realistic estimate for the amount of time that transpired between Jesus’ death on the cross to the moment of His resurrection can only be theorized by reviewing data from multiple disciplines in order to encompass a complete picture. To accomplish as much of a complete picture as possible, we must view aspects from both science and faith. Omitting one or the other would only prevent any realistic estimate from being established...” [**Editor’s Note:** The author is an environmental scientist. This is the final paper he submitted for the course on the Shroud of Turin he completed at the university].

[The Effect of Humidity on Blood Serum Pattern Formation and Blood Transfer](#) by **Kelly Kearse** – *Journal of Forensic Science and Research*, Volume 7 pp. 40-48 – August 28, 2023 – Here is an excerpt from the abstract: “A detailed knowledge of the drying properties of blood is important for a more complete understanding of the forensic information that may exist at a crime location. Although the effect of relative humidity on the general properties of blood drying has been evaluated, relatively little information exists regarding the alterations of blood serum distribution that may occur during the drying process. Moreover, the influence of humidity on the ability of dried blood drops to transfer from skin to absorbent material has never been studied.”

[Further Empirical Data Indicating Repairs in the C-14 Sample Area of the Shroud of Turin](#) by **Joe Marino** – *Academia.edu* – August 25, 2023 – Here is the online description: “This article revises and updates several previous versions presented at conferences in 2000, 2017 and 2019. My late wife, Sue Benford, and I first hypothesized in 2000 the reason that the 1988 C-14 results produced a range of AD 1260-1390 was that the sample chosen was actually a combination, at least to some degree, of original 1st-century cloth and 16th-century repair material. Additional supporting data has been added since 2019. The data strongly indicates that the C-14 sample was from a repair area of the Shroud of Turin.”

[Validation and limitations in the DNA analysis of aged bloodstains: The Shroud of Turin as a sample case](#) by **Kelly Kearse** – *Forensic Science International: Reports*, Volume 8, December 2023 – August 17, 2023 – Here is an excerpt from the introduction: “DNA analysis is useful for investigation of many different types of objects, which can be particularly challenging for older articles, especially those of indefinite provenance. The Shroud of Turin is an aged linen cloth with the faint image of a man containing bloodstains. It is widely reported that the blood is of male origin; however, a modern reexamination of the previous methods and deductions indicate that the results are at best, inconclusive. This example illustrates the limitations that may exist in the DNA analysis of bloodstains, particularly in relation to aged samples...”

[Discoloration Range and Shroud Image Depth Values Cannot Be Satisfied by the Same Proton Energy](#) by **Giovanni Fazio** – *Open Journal of Applied Sciences*, Vol.13 No.8, August 2023 – Here is an excerpt from the abstract: “The radiative hypothesis has been revisited showing other characteristics, produced by the protons used as dyes in total disagree with the ones of the Body Image that appears on the Shroud of Turin. Our investigations highlight that for the protons to reach 3.7 cm in air, the distance that measures the range of discoloration effects, must be emitted with an energy of about 1.5 MeV using Wilson and Brobeck’s empirical formula and 1.35 MeV using Bethe’s... Thus, also the possible I(z) correlation, between color intensity and body-sheet distance, which should be due to the oxidizing action of protons, does not agree with that extracted from the Shroud of Turin.”

[Original Copies: The Newest Reproductions of the Shroud of Turin](#) by **Andrew R. Casper** – *Academia.edu* – July 28, 2023 – Originally published in *Material Religion: The Journal of Objects, Art and Belief*, [at this link](#) on July 28, 2023 (Abstract & Notes only) – Here is an excerpt from the abstract: “The Shroud of Turin is one of Christianity’s most famous, and controversial, sacred artifacts. A large part of its fame is due to the manufacture of reproductions which for five centuries have provided the means to worship the Shroud in absentia. The newest of these, from a project titled Lino Val Gandino, interweave the legacies of centuries of copying up through and including modern digital renderings, multimedia broadcasts, and mass-produced pilgrimage souvenirs that today sustain devotion to the original Shroud...”

[The possible existence of Strange Quark Matter particles in the Turin Shroud](#) by **Jose Carlos Espriella** – *Academia.edu* – July 27, 2023 – Here is the introduction: “It is studied the release of strange Quark matter in the form of Hydrogen strangelets from the body wrapped in the Turin Shroud by analysing pyrolysis mass spectra of Shroud’s samples. It is proposed that a controversial 131 signal could be explained by assuming that 5 amu Hydrogen strangelets particles were captured by molecules produced during the degradation of cellulose: Levoglucosenone MW=126 amu and Hydroxymethyl furfural MW=126, enhancing its molecular weight to 131 amu accounting for the controversial 131 signal.”

[Shroud of Turin Jesus or Akiane Kramarik Jesus](#) by **Edwin Stok** – *Academia.edu* – July 26, 2023 – Here is an excerpt from the abstract: “Akiane Kramarik painted a beautiful "Prince of Peace" at the age of 8. This was how she had seen Jesus of Nazareth in her vision. Her painting was independently confirmed by Colton Burpo at the age of 7. This was the Jesus he had seen during his emergency surgery at the age of 4. Akiane and Colton had never met and had never spoken with each other...”

[Dr. Stephen Lukasik and his Role in the Ill-fated C-14 Dating Proposal by the Shroud of Turin Research Project](#) by **Joe Marino** – *Academia.edu* – July 21, 2023 – Here is the introduction: “The late Dr. Stephen Lukasik, a physicist with a very impressive resume, was not an original member of the Shroud of Turin Research Project (STURP), which studied the Shroud directly for five straight days in 1978. STURP, after their 1981 final report regarding the 1978 examination, hoped to take part in follow up multi-disciplinary testing, including C-14 dating. Dr. Lukasik was recruited to coordinate STURP's proposals. However, Church authorities did not grant STURP permission to be involved in the subsequent testing in 1988, which was limited to only a C-14 test. During Lukasik's STURP involvement, he wrote a book, of which only a few copies were produced. This article highlights significant portions of the book.”

[Did the Galatians See the Image on the Holy Shroud?](#) by **Larry Stalley** – *Academia.edu* – July 12, 2023 – Here is an excerpt from the introduction: ““You foolish Galatians, who has bewitched you, before whose eyes Jesus Christ was publicly portrayed as crucified?” (Gal 3:1). This verse has puzzled commentators. How could the pagan converts of St. Paul have seen the crucifixion of Jesus—a death that had taken place hundreds of miles away in Jerusalem and nearly twenty years earlier? Such seems highly unlikely! Therefore, it is understandable why this verse is usually understood in a figurative or metaphorical sense. Recently this verse has been discussed by members of an esteemed group of Shroud researchers, the “Shroud Science Group” or SSG for short. Might the Galatians have seen the image of “the man of the cloth”? This paper is the product of one of those researchers.” [**Editor’s Note:** This paper will be archived in the [Religion & Philosophy](#) section of the site].

[Evaluation of the potential role of skin contact and transfer in the Maillard hypothesis of image formation on the Shroud of Turin](#) by **Kelly P. Kearse** - *Journal of Historical Archaeology and Anthropological Sciences* – July 5, 2023 – Here is an excerpt from the Abstract: “The mechanism for creation of the faint ventral and dorsal images of a man on the Shroud of Turin is unknown. It has been suggested that image formation involves oxidation and dehydration of the cellulose present in the linen, or, alternatively, that a superficial residue on the surface of the cloth is responsible for creating colored products through the Maillard reaction. One of the major criticisms of the latter hypothesis is that gaseous diffusion is not sufficient to result in the detailed bodily structures present on the cloth. Recently, it was proposed that additional substrates might also participate in the Maillard reaction, specifically proteins and amino acids present in skin, helping to increase the detail of any image produced...”

The following is an older, previously unpublished paper, by **Stephen J. Lukasik**, a physicist who was one of the experts that was involved in the planning of the STURP II project, which sadly, never came to fruition. Lukasik was the Vice-president of the Northrop Corporation, chief scientist at the Federal Communications Commission (FCC) and director of the Advanced Research Project Agency (ARPA). He passed away in 2019. Our thanks to **Joe Marino** for finding this and making it available to us:

[Some Speculations Concerning the Process Leading to the Formation of the Image on the Shroud of Turin](#) by **S. J. Lukasik** – 1985 – Previously unpublished.