

# The Most Notable Figures in Shroud of Turin Research of the 20<sup>th</sup> and 21<sup>st</sup> Centuries

**UPDATED DECEMBER 1, 2023 (See entries for Ghiberti, Moroni and Schwalbe in Part II)**

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## **Introduction**

Since the Shroud of Turin, believed by many to be the actual burial cloth of the historical Jesus, is arguably the most intensely-studied artifact in human history, it's evident that numerous scientists and researchers have spent innumerable hours analyzing this mysterious cloth. There is a technical term for those who study the Shroud: "sindonologists," from the Greek word *sindon*, meaning "linen cloth." It would be almost impossible to list everyone that has been involved, but I will list the scientists and researchers that I believe have been the most notable, with only brief descriptions of their involvement. (But I have probably forgotten some who deserve to belong here!) One of the best sources for additional information is Barrie Schwartz's [shroud.com](http://shroud.com) site.

I have used six primary sources for this article:

- 1.) Barrie Schwartz's "The 1978 STURP Team" from his site [www.shroud.com](http://www.shroud.com) (plus other information found on the site).
- 2.) Ian Wilson's and Barrie Schwartz's "A Who's Who of Shroud Researchers," in *The Turin Shroud: The Illustrated Evidence*. (London: Michael O'Mara Books Limited), 2000;
- 3.) Harry Gove's "Cast of Characters" in *Relic, Icon or Hoax?: Carbon Dating the Turin Shroud*. (Bristol and Philadelphia: Institute of Physics), 1996.
- 4.) My own "Key Figures" in *The 1988 C-14 Dating of the Shroud of Turin: a Stunning Exposé* (Independently published), 2020.
- 5.) The Living Shroud CD-ROM by Emanuela and Marizio Marinelli (Edizione San Paolo s.r.l.), 1999.
- 6.) Information from the Marinellis' site [www.shroud.it](http://www.shroud.it).

Part I will list scientists and researchers who believe that the Shroud is a medieval forgery. Part II will list scientists and researchers who are either neutral regarding authenticity, open to authenticity, or pro-authenticity. An appendix also lists commissions and teams for recent special Shroud events.

Although the parameters for Part II are more comprehensive than for Part I, it's still striking how the sheer numbers of the entries in Part II vastly overshadow the numbers in Part I. It will be up to the reader to decide if that numerical advantage influences their assessment of the Shroud's authenticity. This article will be updated as needed.

## **PART I: BELIEF THAT SHROUD IS A MEDIEVAL FORGERY**

**Accetta, Joseph S. (Dr.):** STURP member who participated directly in the 1978 Examination in Turin. Lockheed Corporation - Infrared spectroscopy. He is the only STURP member who has been consistently skeptical.

**Allen, Nicholas P.I. (Prof.):** Previously Dean of the Faculty of Art and Design, Port Elizabeth Technikon (South Africa). Created a Shroud-like, “photographic” full-body image using materials that would have been available in the Middle Ages.

**Berry, Colin (Dr.):** English scientist who believes the Shroud is a 14<sup>th</sup> century “simulated sweat print.”

**Cameron, Averil (Prof.):** A British classicist whose inaugural lecture at Warden of Keble College, Oxford dismissed the idea that the cloth known as the “Image of Edessa” was the Shroud.

**Canuto, Vittorio (Victor) (Dr.):** A theoretical astrophysicist from NASA, and science advisor to the Pontifical Academy of Sciences president, the Pope’s scientific advisory group. He assisted Chagas and Gove in organizing the 1986 workshop on dating the Shroud, which he attended. Turin Cardinal Ballestrero was concerned about the apparent coalition of the anti-Shroud of Turin Research Project (STURP) Dr. Harry Gove along with Dr. Carlos Chagas and Dr. Victor Canuto during the 1988 C-14 dating testing.

**Chagas, Carlos (Dr.):** A medical doctor from Brazil, who was president of the Pontifical Academy of Sciences. Turin Cardinal Ballestrero was concerned about the apparent coalition of the anti-Shroud of Turin Research Project (STURP) Dr. Harry Gove along with Dr. Carlos Chagas and Dr. Victor Canuto during the 1988 C-14 dating testing. Pope John Paul II removed him shortly after the dating results were announced. Died 2000.

**Craig, Emily A. (Dr.):** Forensic anthropologist from Frankfort, Kentucky. Along with **Prof. Randall Bresee**, Associate Professor of Textiles, University of Tennessee-Knoxville, developed the hypothesis that the image on the Shroud was created by a “dust transfer” technique by a medieval artist.

**Damon, Paul (Dr.):** Professor and co-director of the C-14 lab at the University of Arizona in Tucson, one of the three labs that dated the Shroud. Attended the 1986 workshop on dating the Shroud. Died 2005.

**Dardozi, Renato (Monsignor):** An electrical engineer who was ordained a priest at age 52. He was a deputy director at the Pontifical Academy of Sciences. Died 2003.

**Donahue, Douglas (Prof.):** Professor of Physics and co-director of the AMS lab at U. of Arizona. He was a Catholic and had been hoping the Shroud would date to the 1<sup>st</sup> century.

Died 2020.

**Dutton, Denis:** School of Fine Arts, University of Canterbury, Christ Church, New Zealand. Wrote several letters to *Nature* questioning the procedures of the Shroud dating.

**Evin, Jacques (Dr.):** Was head of the C-14 lab at the University of Claude Bernard, Lyon. Attended the 1986 workshop on dating the Shroud. Involved in providing an extra control sample that was not planned in the protocols.

**Farey, Hugh:** Retired science teacher and Shroud scholar. He is a former editor of the *British Society for the Turin Shroud Newsletter*. Wrote a 3-part article published on academia.edu titled “The Medieval Shroud.”

**Garlaschelli, Luigi (Prof.):** Professor of Chemistry at University of Pavia in Italy. He uses a variant of the rubbing-technique first proposed by Joe Nickell. Then, using a volunteer on a sheet and a bas-relief for the face, he produced a full-sized image made by a chemical discoloration of the cellulose. Garlaschelli asserted it matches all of the Shroud’s characteristics but detractors disagree.

**Gove, Harry (Dr.):** Co-inventor of the C-14 dating method used on the Shroud: accelerator mass spectrometry. Was Professor of Physics at the University of Rochester and director of the Nuclear Structure Research Laboratory from 1963 to 1988. He assisted Canuto and Chagas in organizing the 1986 Turin workshop on dating the Shroud. By his own admission, he worked to get STURP from being involved in the dating and was successful, although his lab was not chosen to participate in the dating. Cardinal Ballestero was concerned about the apparent coalition of the anti-Shroud of Turin Research Project (STURP) Dr. Harry Gove along with Dr. Carlos Chagas and Dr. Victor Canuto during the 1988 C-14 dating. Died 2009.

**Hall, Edward (Dr.):** Was Professor and head of the Research Laboratory for Archaeology and the History of Art, which included the Radiocarbon Accelerator Unit, at Oxford University, one of the labs to date the Shroud. Attended the 1986 workshop on dating the Shroud. Was on the board of Trustees for the British Museum, from which was chosen the overseer of the Shroud C-14 process, Dr. Michael Tite. Shortly after the dating, a million-pound donation was given to Oxford to establish a chair, Hall resigned, and Tite replaced him. Hall died in 2001.

**Harbottle, Garman (Dr.):** Was a senior scientist at Brookhaven National Laboratory Chemistry Department and head of the C-14 facility there. He worked with STURP but also worked closely with Gove. Attended the 1986 workshop on dating the Shroud. Died 2016.

**Hedges, Robert (Dr.):** Senior scientist at C-14 lab in Oxford. Attended the 1986 workshop on dating the Shroud. Appeared with Dr. Tite and Dr. Hall at the press conference held at the British Museum on Oct 14, 1988 to announce the results of the Shroud dating.

**Hoare, Rodney:** British science lecturer. After consultation with some medical personnel in

England, he concluded that the man of the Shroud was alive when laid in the cloth. Died 1997.

**Jewitt, Jane:** English Shroud researcher with extensive anti-authenticity material at [holyshroudofturin.com](http://holyshroudofturin.com).

**Jull, Timothy (Dr.):** Scientist at the University of Arizona C-14 lab. Took part in the lab's measurements after dating its Shroud sample. Jull is currently the head of the lab.

**Lombatti, Antonio:** Italian historian who believes the Shroud is a medieval forgery.

**McCrone, Walter (Dr.):** Microscopist and head of microscopy/chemistry lab in Chicago, Illinois. Wanted to be involved in the Shroud C-14 dating. Based on his studies, he believed both the Vinland Map and the Shroud were fakes. Died 2002.

**Mueller, Marvin M. (Dr.):** Retired physicist from Los Alamos National Laboratories. He believed the Shroud to be a forgery.

**Nickell, Joe (Dr.):** Senior research fellow for the Committee for Skeptical Inquiry and writes regularly for their journal, the *Skeptical Inquirer*. He is also an associate dean of the Center for Inquiry Institute. Has various books and articles that are anti-Shroud. His doctorate is in English literature.

**Nicolotti, Andrea:** Italian historian who has written several books and various articles; has made the case that the Shroud is not authentic.

**Picknett, Lynn:** Journalist from London. With colleague Clive Prince has put forth the hypothesis that Leonardo da Vinci photographically created the Shroud image.

**Rinaldi, Gian Marco.** Italian Shroud scholar. Has a site at <http://sindone.weebly.com/>.

**Schafersman, Steven.** Geologist from Texas who believes the Shroud is a forgery.

**Testore, Franco (Prof.):** Italian textile expert from the Department of Material Science at the Turin Polytechnic. He assisted Riggi with the sample-taking and along with Riggi, gave multiple versions of the sizes and weights of the various sub-samples given to the three labs. Died 2018.

**Tite, Michael (Dr.):** Had been head of the Research Laboratory of the British Museum and was appointed as the overseer of the Shroud dating process. Attended the 1986 workshop on dating the Shroud. After Edward Hall from Oxford retired and the Oxford lab had received a one-million-pound donation, Tite left the British Museum and replaced Hall at Oxford.

**Vikan, Gary:** Art historian and former director of the Walters Art Museum in Baltimore, Maryland. He believes the Shroud is a medieval forgery.

**Wilson, Nathan:** An English teacher who put forth the “Shadow Theory,” which postulates that the Shroud image could be created using only painted glass and sunlight.

**Wöefli (a.k.a. Wolfli, Wölfli), Willy (Dr.):** Was director of the C-14 lab in Zurich, Switzerland, one of the labs to have dated the Shroud. Attended the 1986 workshop on dating the Shroud. Died 2014.

## **PART II: THOSE NEUTRAL, OPEN TO AUTHENTICITY OR PRO-AUTHENTICITY**

**Accetta, August (Dr.):** California surgeon. Experimented with injecting his own body with radioactive material to determine if radiation could explain the image-formation of the Shroud.

**Adler, Alan (Dr.):** STURP member who did not travel to Turin but examined data or samples after the team’s return. Chemistry professor at Western Connecticut State University with expertise in blood chemistry. Did tape sample analysis. Attended the 1986 workshop on dating the Shroud. Died 2000.

**Alonso, Marcel:** French Engineer (ENSPM, Paris) and Geosciences International Expert. Affiliated with the French Shroud group CIELT (Centre International d’Études sur le Linceul De Turin). Has studied the Shroud imprints (blood contacts, body shadows, letters, flowers).

**Antonacci, Mark:** Lawyer from Missouri and Shroud scholar. Author of two books and various articles on the Shroud. Head of the Test the Shroud Foundation in St. Louis, Missouri.

**Ashe, Geoffrey:** British author who in the 1960s created a Shroud-like image by heating a brass horse and lightly applying a cloth to it.

**Barberis, Bruno (Prof.):** Turinese professor of Mathematical Physics. Past-President of the International Center of Sindonology in Turin.

**Ballosino, Nello (Prof.):** Turinese imaging expert and Curator of the Shroud Museum in Turin.

**Barbet, Pierre (Dr.):** Chief surgeon at St. Joseph’s Hospital in Paris in the 1930s. Believed That the man in the Shroud had been nailed through the wrists. Author of the well-known Book A Doctor at Calvary. Died 1961.

**Barta, César:** Physicist and professional in the nuclear and electronic fields. Shroud scholar. Has investigated and written about various topics, including much on the history of the Shroud.

**Baumgart, Steven:** STURP member who participated directly in the 1978 Examination in Turin. U.S. Air Force Weapons Laboratories - Infrared spectral measurements.

**Ballestrero, Anastasio (Cardinal):** Archbishop of Turin during the 1988 dating. Was custodian of the Shroud. Hosted the 1986 workshop on dating the Shroud. Died 1998.

**Bevilacqua, Matteo.** Affiliated with the Hospital at the University of Padua. Has written several medical-related Shroud articles. Colleague of Prof. Giulio Fanti.

**Benford, Sue:** Shroud researcher/scholar who did much work on the theory that the 1988 C-14 sample had been part of a repair, on which she partnered with her husband Joseph Marino. Died 2009.

**Betrand, Jim:** Science teacher from Nebraska and Shroud lecturer, who has given hundreds of Lectures.

**Bollone, Baima (Dr.):** Was affiliated with the Institute of Forensic Medicine of the University of Turin and a member of the Turin Centro (now known as the International Center of Sindonology). Identified the Shroud blood group as group “AB.”

**Bonnet-Eymard (Bro.):** Member of the French monastic group “Catholic Counter-Reformation in the XXth [now XXI<sup>st</sup>] Century.” Believed samples of another cloth were switched with the Shroud samples.

**Bracaglia, Giorgio:** Overseer of the archives of the Holy Shroud Guild, which contains many important documents and letters related to the Shroud, including the 1988 C-14 dating.

**Bray, Anthos (Prof.):** Engineer at G. Colonetti Institute in Turin, involved in the statistical analysis of the C-14 dating data. Died 2016.

**Breault, Russ:** Lecturer and Shroud scholar. President and founder of the Shroud of Turin Education Project, Inc.

**Brignall, Shirley:** Assistant to Dr. Harry Gove of the C-14 lab at the University of Rochester. Attended the 1986 workshop on dating the Shroud. She believed the Shroud was authentic. Died 2019.

**Brooks II, Ernest H.:** STURP member who participated directly in the 1978 Examination in Turin. Brooks Institute of Photography - Scientific photography. Died 2020.

**Brown, John (Dr.):** Microscopist. Was Head of the Materials Characterization Laboratory of Georgia Tech's Research Institute. Ray Rogers loaned him some of the threads he had used to conclude that the C-14 sample area had been repaired. Brown confirmed those findings. Died 2009.

**Brunati, Ernesto:** Italian engineer who wrote various articles questioning the 1988 Shroud C-14 test results. Died 2011.

**Bucklin, Robert (Dr.):** STURP member who did not travel to Turin but examined data or samples after the team's return. Harris County, Texas, Medical Examiner's Office - Medical, forensics. Also had been in Los Angeles; the TV show "Quincy" was based on him. Died 2001.

**Bulst, Werner (Fr. and Dr.):** German Jesuit priest who wrote various books and articles on the Shroud. He believed the Shroud samples that had been dated had been switched with one of the control samples. Died 1995.

**Cameron, James Malcolm (Prof.):** Was Professor of Forensic Medicine at the London Hospital Medical School. Was the foremost British advocate for the realism of the Shroud image.

**Carter, Giles (Dr.):** Was Professor of Chemistry at East Michigan U. Hypothesized that the image was formed by X-rays coming from the bones and teeth interacting with body elements to produce secondary, low-energy X-rays. Died 2010.

**Casabianca, Tristan:** French Shroud scholar fluent in multiple languages. Has focused on the history and philosophy of science in his study of the Shroud. Filed Freedom of Information Act in 2017 to get the raw data released from the British Museum related to the 1988 C-14 dating.

**Casaroli, Agostino (Cardinal):** Vatican secretary of state at the time of the Shroud dating. Died 1998.

**Cavaglia, Giuseppe (Fr.):** Secretary to Cardinal Ballestrero. Died 2017.

**Celli, Celestino (Monsignor):** Vatican ambassador to the United Nations at the time of the Shroud dating.

**Cheshire, Leonard (Group Captain, VC):** WWII RAF hero who promoted knowledge of the Shroud in the U.K. Escorted an ill little girl named Josie Woolam in the 1950s to Turin for a special viewing of the Shroud and wrote a book about it. Died 1992.

**Chiang, R. Gary (Dr.):** Received his M.Sc. and Ph.D. in invertebrate neurobiology. Is particularly interested in faith and science as it relates to the Shroud. Authored a Shroud book and organized an international Shroud conference held in Ancaster, Ontario, CANADA in 2019.

**Clément, Yannick:** French-Canadian Shroud scholar. Died 2019.

**Coero-Borga, Piero (Fr.):** Secretary of the Turin Centro. Died 1986.

**Cottino, Jose (Monsignor):** Press spokesman and caretaker of Shroud for Cardinal Ballestrero. Died 1983.

**Crispino, Dorothy:** Historian and Shroud scholar. Founder and editor of the world-renowned journal *Shroud Spectrum International*. Died 2014.

**Danin, Avinoam (Prof.):** Was Professor of Botany at the Hebrew University in Israel. Identified some of the images on the Shroud as those of the flowers of Israel. Died 2015.

**De Wesselow, Thomas:** Art historian (Cambridge), an expert in the period (14<sup>th</sup> century in which many skeptics believe the Shroud was forged. But De Wesselow, an agnostic, asserts that the Shroud does not fit in artistically with that period.

**Devan, Donald:** STURP member who participated directly in the 1978 Examination in Turin. Oceanographic Services Inc. - Scientific photography, image analysis. Died 2009.

**Devins, J. Thomas:** Chemical engineer and Shroud researcher/author who proposes that there is a correlation between Jesus' resurrection and a Tibetan Buddhist phenomenon known as "Rainbow body."

**Dichtl, Rudolph J.:** STURP member who participated directly in the 1978 Examination in Turin. The University of Colorado - Technical support of all experiments.

**Dinegar, Robert (Fr. and Dr.):** STURP member who participated directly in the 1978 Examination in Turin. Los Alamos National Scientific Laboratories. Chemistry, tape sample removal/analysis. Was chair of STURP's radiocarbon dating committee. Died 2005.

**D'Muhala, Thomas F.:** STURP member who participated directly in the 1978 Examination in Turin. President of Nuclear Technology Corporation. Logistics.

**Delage, Yves (Prof.):** Was Professor of Comparative Anatomy at the Sorbonne in Paris. He was an agnostic but believed the Shroud image was the result of an actual crucifixion and that it was connected to the historical Jesus. Died 1920.

**Di Lazzaro, Paolo (Dr.):** Physicist at National Agency for New Technologies, Energy and Sustainable Economic Development. Vice-President of the International Center of Sindonology. Author of many papers on the Shroud.

**Di Rovasenda, Enrico (Fr.):** Turinese priest who was past director of the Pontifical Academy of Sciences. Attended the 1986 workshop on dating the Shroud. Died 2007.

**Dickinson, Ian:** Outspoken British Shroud researcher and scholar. Died 2015.

**Driesbach, Albert R. (Kim) (Fr.):** Founder of the Atlanta Center for the Continuing Study of the Shroud of Turin. Died 2006.

**Druzik, James:** STURP member who did not travel to Turin but examined data or samples after the team's return. Art conservator at the J.P. Getty Museum in Los Angeles, California.

**Dubarle Pere A.M. (Fr.):** Dominican monk who had been at the Ecole Biblique in Jerusalem. An expert on the Shroud's history, he drew attention to a tenth-century document by Gregory Referendarius that seems to identify the Image of Edessa with the Shroud. Died c. 2003.

**Duplessy, Jean-Claude:** Senior scientist at the C-14 facility in Gif-sur-Yvette, France. Attended the 1986 workshop on dating the Shroud.

**Enrie, Giuseppe:** Professional photographer from Turin. In 1931 he took the set of official black and white photos at that exhibition and took photos at the 1933 exhibition. Died 1958

**Evans, Mark:** STURP member who participated directly in the 1978 Examination in Turin. Brooks Institute of Photography - Microphotography, photomicroscopy.

**Falcinelli, Roberto:** Italian Shroud scholar, especially in the area of history.

**Fanti, Giulio (Prof.):** Department of Industrial Engineering, University of Padua, Italy  
Prolific author of books and articles on the Shroud.

**Fazio, Giovanni (Prof.):** Italian Professor of Physics. Author of numerous Shroud papers.

**Ferri, Lorenzo (Prof.):** Professional sculptor and Professor of Art at the Studio of Sacred Arts in Rome. Spent forty years studying the Shroud; made life-sized drawings and sculptures of the Shroud image. Died 1975.

**Filas, Francis (Prof. and Fr.):** Was Professor of Theology at Loyola U. in Chicago. Did extensive research on the belief by some that there are images of Pontius Pilate coins on the eyes of the Shroud image. Died 1985.

**Fleming, Stuart (Dr.):** Worked at Hall's lab in Oxford and later in the museum at the University of Pennsylvania. Asserted that a medieval restorer could have rewoven the sample area to be invisible to the naked eye. Died 2009.

**Flury-Lemberg, Mechthild:** Head of the Textile Workshop of the Abegg-Siftung Institute in Switzerland and conservation specialist. Originally was supposed to excise the sample for the Shroud dating. Ultimately, it was taken by Giovanni Riggi di Numana. Flury-Lemberg was present at the sample-taking. Attended the 1986 workshop on dating the Shroud. Believes she sees a stitching on the Shroud matching to seam from a textile from Masada, but does not accept the "invisible reweave" theory.  
theory.

**Fossati, Luigi (Fr.):** Turinese Salesian priest and specialist in the Shroud's history during

the period in which the Savoys owned it. Died 2007.

**Frei, Max (Dr.):** Director of the Zurich Criminal Police Scientific Department for twenty-five years. In 1973 and 1978 on sticky-tape samples from the Shroud, pollens of plants from Israel and Turkey were found. Died 1983.

**Fulbright, Diana:** Biblical expert and Shroud scholar. Died 2017.

**Gambescia, Joseph (Dr.):** STURP member who did not travel to Turin but examined data or samples after the team's return. St. Agnes Medical Center - Medical analysis. Died 1991.

**Garza-Valdes, Leoncio (Dr.):** Pediatrician from San Antonio, Texas. Asserted that the Shroud was covered by a bioplastic coating that he believed skewed the C-14 dating results in 1988. Died 2010.

**German, John D. (Dr.):** STURP member who participated directly in the 1978 Examination in Turin. U.S. Air Force Weapons Laboratories - Technical support for all experiments.

**Ghiberti, Giuseppe (Monsignor):** Turin priest. Biblical scholar and member of the Pontifical Biblical Commission. President of the Diocesan Commission for the Shroud. Died 2023.

**Gilbert, Marty:** STURP member who participated directly in the 1978 Examination in Turin. Oriel Corporation - Visible/UV spectroscopy. Married to Roger Gilbert.

**Gilbert, Roger:** STURP member who participated directly in the 1978 Examination in Turin. Oriel Corporation - Visible/UV spectroscopy. Married to Marty Gilbert.

**Gonella, Luigi (Prof.):** Professor of metrology (Physics) at Turin Polytechnic Institute. Scientific advisor to Cardinal Ballestrero of Turin. Attended the 1986 workshop on dating the Shroud. Died 2007.

**Green, Maurus (Fr.):** Benedictine monk from Ampleforth Abbey in England. Did much research into the Shroud's history. Died 2001.

**Grundfest, Warren (Dr.):** Was Director of the Laser Research and Technology Development Laboratory at Cedar-Sinai Medical Center in Los Angeles, California, and Clinical Professor of Surgery at University of California, Los Angeles. Proposed a digital imaging spectroscopy approach to the Shroud. Died 2019.

**Guerreschi, Aldo:** Turinese photographer and Shroud scholar. Authored a Shroud book and also various articles that analyze various accidents the Shroud has been through in its history as well as scorch marks and water stains.

**Guscini, Mark:** Classical scholar and translator. Has shown possible links between the Shroud and the Sudarium of Oviedo.

**Habermas Gary R. (Dr.):** Associate professor of apologetics and philosophy at Liberty University. Co-authored two Shroud books with Dr. Kenneth Stevenson and has lectured extensively on the Shroud.

**Haverty, Thomas:** STURP member who participated directly in the 1978 Examination in Turin. Rocky Mountain Thermograph – Thermography.

**Heimbürger, Thibault (Dr.):** French physician and Shroud scholar. Examined much of the chemical evidence on the Shroud.

**Hermosilla, Alfonso Sanchez:** Medical Examiner EDICES Director (Spanish Sindonology Research Centre Team). Also an expert on the Sudarium of Oviedo.

**Heller, John (Dr.):** STURP member who did not travel to Turin but examined data or samples after the team’s return. Medical doctor, biophysicist, and blood expert. Professor of Internal Medicine and Medical Physics at Yale University. Director of the New England Institute . Died 1995.

**Heras, Guillermo:** Vice President of Research and Training at the Spanish Center for Sindonology.

**Hoeven, Adrie.** Technical University of Delft, Physics. Author of three Shroud articles available on academia.edu; one of them being book-length at <https://delftschoolofdesign.academia.edu/AdrieVdHoeven>.

**Iannone, John.** Shroud author and lecturer from Florida.

**Ibarrola , Faustino Cervantes:** Ecclesiastical assistant of the Mexican Center of Sindonology. Died 1995.

**Jackson, John (Dr.):** STURP member who participated directly in the 1978 Examination in Turin. Physicist and co-founder of STURP along with Eric Jumper, while both were stationed at the Air Force Academy in Colorado Springs, Colorado. STURP President, measurements/analysis. Co-director of the Turin Shroud Center of Colorado. Jackson is assisted at the Center by **Keith E. Propp** and **David R. Fornof**.

**Jackson, Rebecca:** Co-director of the Turin Shroud Center of Colorado with her husband John. She runs the TSC Exhibit Presentation Center and conducts research into the First Century Jewish aspects of the Shroud, a field of scholarship that is of great importance regarding the question of the Shroud’s authenticity.

**Janney, Donald:** STURP member who participated directly in the 1978 Examination in Turin. Los Alamos National Scientific Laboratories - Image analysis.

**Jones, Stephen E.** Australian evangelical Christian Shroud blogger with a site at <http://theshroudofturin.blogspot.com/>.

**Judica-Cordiglia, Giovanni Battista:** Turinese photographer who was the first person to photograph the Shroud in color. This was done in 1969 during the secret examination authorized by Cardinal Pellegrino.

**Jumper, Eric (Dr.):** STURP member who participated directly in the 1978 Examination in Turin. Physicist and co-founder of STURP along with John Jackson, while both were stationed at the Air Force Academy in Colorado Springs, Colorado. STURP Vice-President, measurements/analysis. After the C-14 results he publicly stated that he was certain that the Shroud could not be from the 1<sup>st</sup> century. However, after reading Ray Rogers' 2005 peer-reviewed paper in *Thermochimica Acta* and consulting with other scientists, he now says he is no longer certain that the Shroud cannot be from the 1<sup>st</sup> century. [In other words, he now believes it is possible that the Shroud can be from the 1<sup>st</sup> century.]

**Kearse, Kelly (Dr.):** Immunologist, science teacher and Shroud researcher on blood aspects.

**Kohlbeck, Joseph (Dr.):** Was specialist in optical crystallographic techniques with Hercules Aerospace in Utah. Analyzed with Dr. Eugenia Nitowski limestone dust found on the underside of the Shroud.

**Latendresse, Mario:** French Canadian computer scientist and Shroud scholar. Involved in multiple aspects of Shroud research.

**Laude, Jean-Pierre:** Engineer from Ecole Supérieure d'Optique de Paris. Since 2014 papers have been published on the spectroscopy of the blood on the Shroud, image-formation, and iconography of Christ.

**Lavoie, Gilbert (Dr.):** Physician from Massachusetts and specialist in internal and occupational medicine. Has made a unique study of the blood flows on the Shroud, showing how they could have transferred to the cloth in the intact manner observed.

**Lejeune, Jerome (Dr.):** Was French physician and Vice-President of the Pontifical Academy of Sciences. Criticized the methodology of the 1988 C-14 dating. Was looking into the DNA question pertaining to the Shroud and did some research into the Hungarian Pray Manuscript (c. AD 1195) and the possibility that its artist had seen the Shroud. Died 1994.

**Libby, William (Dr.):** Inventor of the radiocarbon dating method. Died 1980.

**Lind, Arthur (Dr.):** Physicist and a retired fellow from McDonnell Douglas and Boeing. Colleague of Mark Antonacci, with whom he co-authored several Shroud articles.

**Loken, John:** Studied history, religion and languages in the 1980s. Became an agnostic but became convinced that the Shroud wrapped Jesus. Authored a book that posits that the Shroud image inspired the Resurrection belief.

**London, J. Ronald:** STURP member who participated directly in the 1978 Examination in

Turin. Los Alamos National Scientific Laboratories - X-ray radiography and X-ray Fluorescence. Died 1998.

**Lorre, Jean:** STURP member who participated directly in the 1978 Examination in Turin. Jet Propulsion Laboratory - Image analysis. Died 2005.

**Lucotte, Gérard (Dr.):** Geneticist from the Institute of Molecular Anthropology in Paris and Author of various papers on the Shroud.

**Lukasik, Stephen (Dr.):** Was vice-president of Technology division at Northrup Corporation in Los Angeles, California. He was in charge of experiments that STURP had hoped to carry out in conjunction with the 1988 Shroud dating. Attended the 1986 workshop on dating the Shroud. Died 2019.

**Lynn, Donald J.:** STURP member who participated directly in the 1978 Examination in Turin. Jet Propulsion Laboratory - Image analysis. Concluded that the image on the Shroud had no “directionality.” Died 2000.

**Mangum, Peter B. (Very Rev.):** Director of the Museum of the Holy Shroud (temporarily in Shreveport, Louisiana). Member of the American Confraternity of the Holy Shroud. Shroud lecturer.

**Maloney, Paul:** Former Archaeology, Greek and Old Testament Professor at Vennard College and United Wesleyan College. General Project Director of the “Association of Scientists and Scholars International for the Shroud of Turin.” Arranged for the Max Frei sticky-tape samples to be transferred to the United States. Died 2018.

**Manton, Lennox.** British Shroud scholar. He investigated the relationship between the Shroud and Christian iconography and wrote several important articles. Died 2017.

**Marinelli, Emanuela:** Italian Shroud researcher and author for over forty years. Graduated in Natural and Geological Sciences at La Sapienza University in Rome. Author of numerous books and articles on the Shroud. Affiliated with the former print but now online-only Collegamento pro Sindone group.

**Marino, Joseph:** Former Benedictine monk. Has long been disseminating information about the Shroud through a print newsletter or online. Along with his late wife Sue Benford, has done much research on the “invisible reweave” theory, which postulates that the samples used in the 1988 C-14 dating of the Shroud had been repaired by an invisible reweave technique known to French weavers in the 16<sup>th</sup> century.

**Markwardt, Jack:** Attorney and Shroud historian who has written multiple articles on the Shroud and will soon be coming out with a book.

**Mattingly, Steven (Dr.):** Retired Head of Microbiology at the University of Texas Science Health Center in San Antonio. Argues for a bacteriological cause of the Shroud’s image.

**McAvoy, Thomas (Dr.):** Chemical Engineer. Currently looking into applying signal processing techniques to photos of the Shroud and has had two recent Shroud papers published in the prestigious journal *Applied Optics*.

**Mattei, Luigi E. (Prof.):** Sculptor based in Bologna, Italy. Made a life-sized sculpture based on the Shroud.

**Meacham, William:** American archaeologist based in Hong Kong. Attended the 1986 workshop on dating the Shroud. Warned before the Shroud dating of potential pitfalls and of putting too much stock in the dating. Accurately predicted many of the outcomes that ensued after the testing.

**Miller, Vernon D.:** STURP member who participated directly in the 1978 Examination in Turin. Was Head of the Scientific and Industrial Photograph Dept. at Brooks Institute of Photography – In charge of Scientific Photography during the 1978 study. Died 2009.

**Minor, Mike:** Lawyer for STURP. Organized several Shroud conferences held in Dallas, TX. Died 2008.

**Moon, Pam:** British researcher and Shroud scholar. Oversees the travelling “Shroud of Turin Exhibition.”

**Moran, Kevin:** Optical Engineer and Technology specialist. Did much work with the VP-8 Image-Analyzer. Died 2019.

**Morgan, Rex:** Australian broadcaster, Shroud researcher and lecturer. Publisher of *Shroud News* between 1980-2001.

**Moroni, Mario (Prof.):** Italian Shroud scholar. He believed there were Pontius Pilate coins on the Shroud image. Also did research on the iconography of the Savior; the mechanism of formation of the Shroud image and the dating of the fabric. Died 2017.

**Morris, Roger A.** STURP member who participated directly in the 1978 Examination in Turin. Los Alamos National Scientific Laboratories - X-ray Fluorescence. Died 1999.

**Mottern, Robert William (Bill):** Was a Nuclear safeguards specialist with Sandia National Laboratories in Albuquerque, New Mexico. STURP member who participated directly in the 1978 Examination in Turin. - Image analysis, X-ray radiography. Died 2015.

**Nitowski, Eugenia (Dr.) (a.k.a. Sr. Damian of the Cross):** American archaeologist and former Carmelite Nun. She performed image-formation experiments in Jerusalem in 1986 and was concerned with Shroud conservation. Worked with Dr. Joseph Kohlbeck examining limestone dust found on the underside of the Shroud. Died 2007.

- Oeschger, Hans (Dr.):** Founder of the Division of Climate and Environmental Physics at the Physics Institute of the University of Bern in 1963 and director until his retirement in 1992. Died 1998.
- O’Rahilly, Alfred (Fr.):** Irish Catholic priest. Author of various major Shroud articles and a major Shroud book.
- Orareo, Richard:** Formerly based in Boston, he assembled the U.S.’ finest private collection of books and other Shroud-related materials over the centuries. He is currently living in Florida and now looking for a permanent home for his collection.
- Otlet, Robert (Dr.):** Was head of the C-14 dating facility in Harwell, England. Attended the 1986 workshop on dating the Shroud.
- Otterbein, Adam (Fr.):** Co-founder and President of the Holy Shroud Guild in Esopus, New York. He greatly encouraged and facilitated Shroud research in the English-speaking world. Died 1998.
- Parlato, Charles:** American businessman. Headed the Shroud organization “American Shroud of Turin Association” (ASTA).
- Pellicori, Samuel:** STURP member who participated directly in the 1978 Examination in Turin. Optical physicist from Santa Barbara Research Center (California)- Visible/UV spectroscopy.
- Petrosillo, Orazio:** Vatican correspondent for the Italian newspaper *Il Messaggero*. Co-authored several Shroud books and also wrote numerous articles. Died 2007.
- Pia, Secondo:** Was a politician and an amateur photographer. Was chosen to photograph the Shroud in 1898. He wrote that he almost dropped the plate when he first saw the lifelike image on his negative. Died 1941.
- Piczek, Isabel:** Was Los-Angeles-based artist specializing in murals, mosaics and stained-glass windows for churches. She argued that it would have been impossible for a medieval artist to have created the Shroud. Died 2016.
- Polach, Henry:** Considered the father of radiocarbon dating in Australia, and a significant player on the worldwide stage of radiocarbon. Attended the 1985 C-14 meeting in Trondheim that hugely impacted the Shroud C-14 dating in 1988. Died 1996.
- Pope John Paul II:** Became Pope only a few days after STURP ended its 1978 investigation. Was the Pope during the 1988 C-14 dating and during the controversial 2002 restoration of the Shroud, both of which he authorized. Died 2005.
- Porter, Daniel R.** American Episcopalian who published Shroud of Turin blog from 2008-2019 at [www.shroudstory.com](http://www.shroudstory.com). Archives are still available.

**Prior, Edwin.** Retired NASA scientist. Questioned the validity of the 1988 C-14 dating results and co-authored two articles on the subject with Joseph Marino. Has also lectured on the Shroud.

**Raes, Gilbert (Dr.):** Was professor and textile expert at Ghent University in Belgium. Was given a small sample of the Shroud in 1973 for examination. The 1988 C-14 sample was next to the area from which the Raes sample was taken. Was suspicious about the results that the labs had obtained. Died 2001.

**Raffard de Briene, Daniel:** French journalist and Shroud scholar. Died 2007.

**Ricci, Giulio (Msgr.):** He was the leading Italian researcher and lecturer on the Shroud in Rome for many years. Author of several Shroud books. Died 1995.

**Riggi di Numana (a.k.a. Riggi), Giovanni:** Italian scientist who made microanalytical studies of dusts vacuumed from the Shroud's underside. Cut the sample from the Shroud in 1988 for the C-14 dating. Along with Franco Testore, gave multiple versions of the sizes and weights of the various sub-samples given to the three labs. Died 2008.

**Rinaldi, Peter (Fr.):** Catholic priest born in Turin. Vice-President of the Holy Shroud Guild. Was pastor of Church in Port Chester, New York but had dual citizenship. Mediator between STURP and the Turinese authorities. Died 1993.

**Robinson, John A.T. (Dr. and Rev.):** Was Anglican bishop of Woolich, England. New Testament scholar. Was one of the founders of the British Society for the Turin Shroud. Believed the Shroud was compatible with New Testament accounts of Jesus' burial.

**Rodante, Sebastiano (Dr.):** Physician from Syracuse, Italy. He started his Shroud research in 1942 and asserted that the image was formed by natural means: bloody sweat, aloes, and myrrh. His repeated experiments, sometimes on a corpse, in the catacombs of Siracusa reportedly gave imprints that were superficial, 3-dimensional and without deformation." Died 2016.

**Rogers, Joan Janney:** STURP member who participated directly in the 1978 Examination in Turin. Los Alamos National Scientific Laboratories - Technical support. Widow of Ray Rogers.

**Rogers, Raymond:** STURP member who participated directly in the 1978 Examination in Turin. Los Alamos National Scientific Laboratories - Chemistry, tape sample removal/analysis. Shortly before his death, he authored a paper in *Thermochimica Acta* that stated that the Shroud sample tested for the C-14 dating was not representative of the main cloth. Died 2005.

**Rolfe, David:** British producer and director responsible for four Shroud films with another due out at Easter 2022. Current editor of the *British Society for the Turin Shroud*

*Newsletter.*

**Rucker, Robert A.:** Nuclear engineer in Richland, Washington and Shroud scholar. Author of numerous articles on the Shroud.

**Scavone, Daniel C. (Dr.):** Emeritus Professor of History, University of Southern Indiana at Evansville. Foremost historian of the Shroud in the U.S. Believes that the earliest versions of the Grail story were based on the Shroud being taken to Edessa.

**Scheuermann, Oswald.** Was German physics teacher. Experimented with corona discharges as a possible image-forming mechanism. Collaborated with Dr. Alan Whanger. Died 2019.

**Schneider, Raymond:** Respected Shroud scholar and educator. Died 2019.

**Schumacher, Peter:** Retired Electronics engineer. Inventor and developer of the VP-8 Image Analyzer that was used by scientists in the mid-1970s that was an impetus to form the STURP team to study the Shroud.

**Schwartz, Barrie M.:** STURP member who participated directly in the 1978 Examination in Turin. Documentation Photography. President of Shroud of Turin Education and Research Association (STERA), which publishes the premier Shroud website: [www.shroud.com](http://www.shroud.com).

**Schwalbe, Larry (Dr.):** STURP member who did not travel to Turin but examined data or samples after the team's return. Los Alamos National Scientific Laboratories - Physics, X-ray fluorescence. Died 2023.

**Siefker, Robert W.:** Engineer and Shroud researcher. Affiliated with the Turin Shroud Center of Colorado run by John and Rebecca Jackson.

**Siliato, Maria-Grazia:** Was Swiss archaeologist and Shroud scholar. Died 2018.

**Skurka, Jeffrey:** Engineer from New Jersey who originally was a Shroud skeptic but came to believe that the 1988 C-14 dating results were evidence for the Resurrection of Jesus. He has explained in several Shroud conference presentations, some with colleague **Cathy Osborn**.

**Somolo, Martinus (Cardinal):** Vatican undersecretary of state at the time of Shroud dating.

**Soran, Diane:** STURP member who did not travel to Turin but examined data or samples after the team's return. Los Alamos National Scientific Laboratories - Chemistry, Archaeology. Deceased—year unknown but c. early 1980s.

**Souverain, Raymond:** Was vice-president of the French Shroud organization, Centre International d'Études sur le Linceul de Turin (CIELT).

**Sox, David (Fr.):** An American Episcopalian priest stationed in England and a former secretary of the British Society for the Turin Shroud. Wrote several books on the Shroud, including Unmasking the Shroud, which was printed two weeks before the official announcement of the Shroud C-14 dating results. Died 2016.

**Spitzer, Robert (Fr.):** Jesuit priest. Shroud author and lecturer.

**Stalley, Larry:** A relative newcomer to sindonology. He has a B.A. in Biblical Languages, a M.A. in Religion, Church History and is an Ordained Church of Christ pastor. Has posted many excellent articles to [www.academia.edu](http://www.academia.edu).

**Stevenson, Kenneth (now both Rev. and Dr.):** STURP member who participated directly in the 1978 Examination in Turin. IBM - Public Relations. Was also at Air Force Academy with Jackson, Jumper and German. Has co-authored or authored several books on the Shroud.

**Svensson, Neils (Dr.):** Danish physician and Shroud researcher.

**Tamburelli, Giovanni (Prof.):** Computer scientist. Director of Research at CSELT (Centro Studi e Laboratori Telecomunicazioni) and member of the Board of Directors of the Centro Internazionale di Sindonologia. In 1979 he was named "Turinese of the Year" for his contributions to the study of the Shroud image. Died 1990.

**Tessiore, Giorgio:** Teacher of Natural Science in a lyceum of Turin. Member of the Turin Polytechnic University. Wrote several articles critical of the 1988 C-14 dating. Died 2000.

**Tribbe, Frank C.:** Was U.S. government lawyer in Virginia. Wrote many Shroud articles and a major Shroud book. Died 2014.

**Tyrer, John.** British textile expert who believed that the C-14 dating did not prove the Shroud to be a fake. Author of several important Shroud articles. Died 1992.

**Tryon, Victor V. (Dr.):** Was Director of Center for Advanced DNA Technology, University of Texas Health Science Center in San Antonio. Found DNA in some of the blood samples but too many people have touched the Shroud over the centuries for any discernible useful information.

**Umberto II (King):** Was 'the last king of Italy, who was exiled to Portugal. He belonged to the House of Savoy, which owned the Shroud. It was he who had given permission for STURP to conduct the 1978 examination. Before he died, he willed the Shroud to the living Pope before the former's death in 1983. After legal proceedings, the cloth officially became the property of the living Pope starting in 1985.

**Upinsky, Arnaud-Aaron (Dr.):** French mathematician. Called into question the labs' statistics regarding the C-14 dating results.

**Vala, Leo:** Studio and fashion photographer based in London. Made a 3D representation of the Shroud in the late 1960s.

**Van Haelst, Remi:** Belgian chemist who wrote many articles questioning the data produced by the three labs after the 1988 Shroud C-14 dating.

**van Oosterwyck-Gastuche, Marie-Clair (Dr.):** French Shroud scholar. Her Ph.D. was in Physical Chemistry. She heavily criticized the C-14 labs methodology in 1988. Died 2016.

**Vial, Gabriel:** Textile expert from the Historical Museum of Fabrics, Lyon, France. Was involved in various aspects of the 1988 Shroud dating. Died 2005.

**Vignon, Paul:** Professor, Faculty of Philosophy, Institut Catholique in Paris. Promoted idea that the Shroud's image was a "vaporograph." The outbreak of WWII hampered his research. Died 1943.

**Villarreal, Robert (Dr.):** Chemist from Los Alamos National Laboratories, with a team of eight others from the lab, confirmed Ray Rogers' findings that the C-14 sample area from 1988 had been repaired. Died 2018.

**Volckringer, Jean (Dr.):** Pharmacist from France. Noticed a similarity between the Shroud image and the images caused by pressed plants in botanical collections. Died 1991.

**Walsh, Bryan:** American mathematician, statistician and Shroud researcher. Wrote or co-wrote several articles critiquing the 1988 Shroud dating results.

**Weisskopf, Victor (Dr.):** Austrian-born American theoretical physicist. Member of the Pontifical Academy of Sciences. Died 2002.

**Whanger, Alan (Dr.):** Professor of Psychiatry and Shroud researcher. Was an amateur photographer. Believed that photographic and video evidence of the C-14 sample area indicated that the area had been rewoven. Developed the photographic technique known as the "polarized image overlay technique," which allowed comparisons of the Shroud with early portraits of Jesus. Died 2017.

**Whanger, Mary:** Wife of Alan. She assisted him in most of his research. Died 2021.

**White, Cheryl (Dr.):** Professor of History at Louisiana State University in Shreveport, LA. Shroud scholar who has made several trips to the Vatican archives to do Shroud research. Her research focuses on the aspects of historicity and epistemology.

**Willis, David (Dr.):** The leading British medical research on the Shroud during the 1960s and early 1970s. Disputed arguments, still made today, that the Shroud shows that Jesus did not die on the cross. Died 1976.

**Wilson, David (Sir):** Director of the British Museum. It was he to whom Gove wrote to say that the Shroud dating had become “a shoddy enterprise.”

**Wilson, Ian:** Historian originally from England who studied at Oxford. Authored several books and many articles on the Shroud, including the seminal book The Shroud of Turin in 1978, which helped make the Shroud better known, especially in the Western world. One of the founders of the British Society for the Turin Shroud. Believes the “Image of Edessa” was the Shroud.

**Winchester, Janis.** Forensic scientist, Fellow in the American Academy of Forensic Sciences, Life Member International Association for Identification, Member of American Society of Questioned Document Examiners. Has studied the VP-8 Image Analyzer with the late optical engineer Kevin Moran and its inventor Peter Schumacher. Shroud lecturer.

**Wuenschel, Edward (Fr.):** Redemptorist priest. Mentor of Fr. Adam Otterbein. Active in Shroud research from the 1940s through the 1960s. Authored multiple Shroud articles. Died 1964.

**Zaccone, Gian Maria (Dr.):** Scientific Director of the Shroud of Turin Museum [Sindone Museo] in Turin and member of the International Center of Shroud Studies.

**Zaninotto, Gino.** Classical scholar from Rome. Discovered text of a sermon by Gregory Referendarius who described the Image of Edessa having a side wound, probably indicating a full-length image like the Shroud. Died 2016.

**Zugibe, Frederick (Dr.):** Was Chief Medical Examiner, Rockland County, New York. Experimented with volunteers to study the effects of crucifixion on the body. Authored several books and various articles on the Shroud. Died 2014.

## **APPENDIX: RECENT SPECIAL SHROUD COMMISSIONS AND TEAMS**

**1969**

**The commission of experts appointed by the archbishop of Turin Cardinal Michele Pellegrino to study the condition of the relic; also, in expectation of further research (June 16-18, 1969)**

1. Cardinal Michele Pellegrino
2. Mgr. Sergio Baldi
3. Mgr. Pietro Caramello
4. Mgr. Josè Cottino
5. Silvio Curto, teacher of Egyptology at Turin University
6. Enzo De Lorenzi, Consultant of Radiology at the Mauriziano Hospital of Turin
7. Giorgio Frache, Director of the Institute of Legal Medicine of Modena University
8. Noemi Gabrielli, Curator of the Piedmont Galleries

9. Luigi Gedda, Professor at the University Institute "Maria Assunta" of Rome
10. Giovanni Judica Cordiglia, Teacher of Legal Medicine at Turin University
11. Camillo Lenti
12. Enrico Medi, physicist

The photographer Giovanni Battista Judica Cordiglia and his assistant Carlo Andrea Filipello, the count Umberto Provana of Collegno, Umberto Chierici, Nemo Riccardo Toncelli, the bishop Francesco Sanmartino participated in the operation as well.

## 1973

The commission of experts appointed by the archbishop of Turin Cardinal Michele Pellegrino to prepare the television exhibition on November 23, 1973 (October 4, 1973) and to do further examinations (November 24, 1973)

1. Cardinal Michele Pellegrino
2. Msgr. Sergio Baldi
3. Msgr. Pietro Caramello
4. Msgr. Josè Cottino
5. Cesare Codegone, Director of the Institute of Technical Physics at the Turin Polytechnic
6. Silvio Curto, teacher of Egyptology at Turin University
7. Enzo De Lorenzi, Consultant of Radiology at the Mauriziano Hospital of Turin
8. Guido Filogamo, of the Institute of Normal Human Anatomy and of Histology at Turin University
9. Noemi Gabrielli, Curator of the Piedmont Galleries
10. Giovanni Judica Cordiglia, Teacher of Legal Medicine at Turin University
11. Emilio Mari, assistant of G. Filogamo
12. Eugenia Mari Rizzati, assistant of G. Filogamo
13. Mario Milone, Director of the Chemistry Institute of Turin University
14. Gilbert Raes, Director of the Institute of Textile Technology University of Ghent (Belgium)

The photographer Giovanni Battista Judica Cordiglia, Pietro Roz, Roberto Spigo, Aurelio Ghio, Max Frei Sulzer, the bishop Livio Maritano, the count Umberto Provana of Collegno, Mgr. Paolo Pollicita, Mgr. Giovanni Battista Bosso, Don Giovanni Luciano, Antoine Legrand, D. Galimard, Sister Eliselda Campagnolo, Sister Luciana Lunardi, Sister Albertina Maggiorotti, Sister Angelina Negro, all participated in the operation as well. Giorgio Frache, Director of the Institute of Legal Medicine of Modena University and Alberto Zina of the Institute of Normal Human Medicine of Turin University, used the data and the samples taken by others for their studies.

## 1988

The participants in the taking of samples from the Shroud for the radiocarbon dating (April 21, 1988)

1. Cardinal Anastasio Ballestrero
2. Msgr. Sergio Baldi
3. Msgr. Pietro Caramello
4. Msgr. Felice Cavaglià
5. Msgr. Renato Dardozzi
6. Msgr. Giovanni Luciano
7. Paul Damon, Department of Geosciences, University of Arizona, Tucson
8. Doug Donahue, Department of Physics, University of Arizona, Tucson
9. Luigi Gonella, Polytechnic of Turin
10. Edward Hall, Research Laboratory for Archeology and History of Art, University of Oxford
11. Robert Hedges, Research Laboratory for Archeology and History of Art, University of Oxford
12. Giovanni Riggi, Riggi Project Company
13. Franco Testore, Polytechnic of Turin
14. Michael Tite, Research Laboratory, British Museum
15. Gabriel Vial, History Museum of Materials of Lyon
16. Willi Woelfli, Institute for Mittelenergiephysik, ETH-Hönggerberg, Zurich

## 1989

List of the scientists who signed the report on the radiocarbon exam on the Shroud published in "Nature" (February 16, 1989)

1. J.C. Ambers, Research Laboratory, British Museum, London
2. G. Bonani, Institute for Mittelenergiephysik, ETH-Hönggerberg, Zurich
3. S.G.E. Bowman, Research Laboratory, British Museum, London
4. C.R. Bronk, Research Laboratory for Archeology and History of Art, University of Oxford
5. P.E. Damon, Department of Geosciences, University of Arizona, Tucson \*
6. D.J. Donahue, Department of Physics, University of Arizona, Tucson \*
7. B.H. Gore, Department of Geosciences, University of Arizona, Tucson \*
8. E.T. Hall, Research Laboratory for Archeology and History of Art, University of Oxford \*
9. A.L. Hathaway, Department of Physics, University of Arizona, Tucson
10. R.E.M. Hedges, Research Laboratory for Archeology and History of Art, University of Oxford
11. R. Housley, Research Laboratory for Archeology and History of Art, University of Oxford
12. AJT Jull, Department of Geosciences, University of Arizona, Tucson
13. IA Law, Research Laboratory for Archeology and History of Art, University of Oxford
14. MN Leese, Research Laboratory, British Museum, London
15. TW Linick, Department of Physics, University of Arizona, Tucson

16. C. Perry, Research Laboratory for Archeology and History of Art, University of Oxford
17. PJ Sercel, Department of Physics, University of Arizona, Tucson
18. MS Tite, Research Laboratory, British Museum, London \*
19. L.J. Toolin, Department of Geosciences, University of Arizona Tucson
20. S. Trumbore, Institute for Mittelenergiephysik, ETH-Hönggerberg, Zurich
21. W. Woelfli, Institute for Mittelenergiephysik, ETH-Honggerberg, Zurich \*

The researchers indicated with the star (\*) participated directly in the taking of samples in 1988 in Turin.

## 1992

**The commission of experts in restoration and history of ancient materials appointed by the archbishop of Turin Cardinal Giovanni Saldarini to study the condition of the relic (September 7, 1992)**

1. Jeannette Cardamone (USA)
2. Silvio Diana (Italy)
3. Mechtild Flury-Lemberg (Switzerland)
4. Sheila Landi (England)
5. Gian Luigi Nicola of Aramengo (Italy)

There were also other experts appointed by the Cardinal, the representatives of the Architectural and Artistic Assets Office, the Councilor responsible for Culture of Piedmont Region, Enrico Nerviani.

## 1997

**Experts Commission appointed by the archbishop of Turin Cardinal Giovanni Saldarini to verify the condition of the Shroud after the fire on April 11-12, 1997 (April 14, 1997)**

1. Cardinal Giovanni Saldarini, Pontifical Guardian
2. Don Giacomo Martinacci, Archbishop Chancellor
3. Don Giuseppe Ghiberti, Vice-president of the Diocesan Commission for the Exhibition of the Shroud
4. Pierluigi Baima Bollone, University of Turin - Director of the International Center for the Turin Shroud
5. Bruno Barberis, University of Turin - President of the Centro Internazionale di Sindonologia di Torino (International Center for the Turin Shroud)
6. Mechtild Flury-Lemberg (former Director of the Abegg Museum of Riggisberg - Berne)
7. Piero Savarino (Scientific Assistant of the Guardian)
8. Carla Enrica Spantigati (Artistic and Historic Assets Office of Piedmont)
9. Rosalia Varoli Piazza (Istituto Centrale del Restauro of Rome)
10. Giammaria Zaccone (Member of the Centro Internazionale di Sindonologia di Torino)

International Center for the Turin Shroud)

There were also other people such as the Palatine Chaplains of the Cathedral of Turin.

## 2002

On November 1, 2002 the Cardinal Archbishop, Papal Custodian of the Shroud, has constituted the **Diocesan Commission for the Shroud**, appointing the following members: Mgr. Giuseppe Ghiberti, president; Fr. Ferruccio Ceragioli, vice-president; Mgr. Dario Berruto, Fr. Mario Filippi Salesian, Canon Giuseppe Chicco, rector of the Church of the S. Sudario in Turin (priests in charge of the Shroud pastoral); Canon Francesco Cavallo, parish priest of the Cathedral (also as the representative of the Metropolitan Chapter); Prof. Piero Savarino, Scientific Adviser of the Custodian.

Responsible members for the technical problems are: geom. Carlo Stroppiana (responsible), eng. Gian Luigi Ardoino and Prof. Paolo Soardo (collaborators). Responsible for the communication: Dr. Marco Bonatti, Dr. Gian Maria Zaccone. Responsible for the administration: Fr. Domenico Cattaneo, Diocesan Accountant. Representative of the Centro Internazionale di Sindonologia: Prof. Bruno Barberis. Secretary-General and person in charge of the Volunteers: Sister Maria Clara Antonini, Emanuele Calajò (collaborators). (*La Voce del Popolo*, November 17, 2002, p. 2).

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