

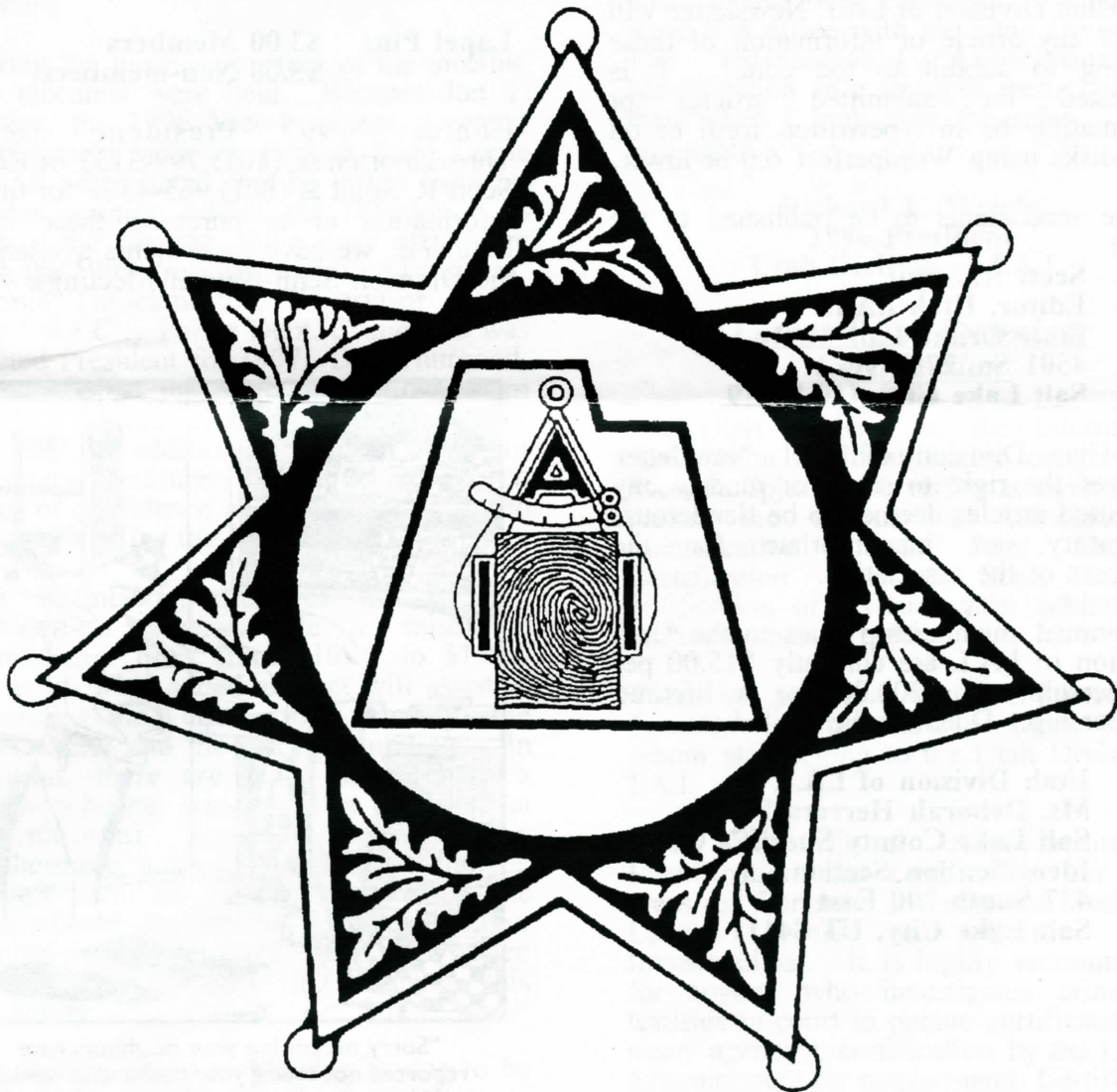
The International Association For Identification
Utah Division of I.A.I.

Chartered 1989

NEWSLETTER

Vol. VII; No. 3/4 WINTER EDITION

1996



Richard L. Wright
1996 President

Jon T. Stimac
1996 Vice-President

Deborah Herrera-Parkin
1996 Treasurer

Darren B. Jewkes
1996 Secretary

The Utah Division of The International Association for Identification (I.A.I.) is a chartered division of The International Association for Identification since 1989.

The Utah Division of I.A.I. Newsletter is published four times a year during the Spring, Summer, Fall, and Winter. The information contained within the newsletter is either in the form of submitted articles, information from other investigative publications, or reported information.

The Utah Division of I.A.I. Newsletter will accept any article or information of those wishing to submit to the editor. It is requested the submitted articles or information be in typewritten form or on 3.5" disks using Wordperfect 6.0 or lower.

Please send items to be published to the editor:

Scott R. Spjut
Editor, Utah I.A.I.
State Crime Lab
4501 So. 2700 W.
Salt Lake City, UT 84119

The Utah Division of I.A.I. Newsletter reserves the right to reject or modify any submitted articles deemed to be slanderous, derogatory, or inappropriate for the members of the association.

The annual membership dues to the Utah Division of I.A.I. are currently \$15.00 per membership, or \$200.00 for a lifetime membership. Dues can be mailed to:

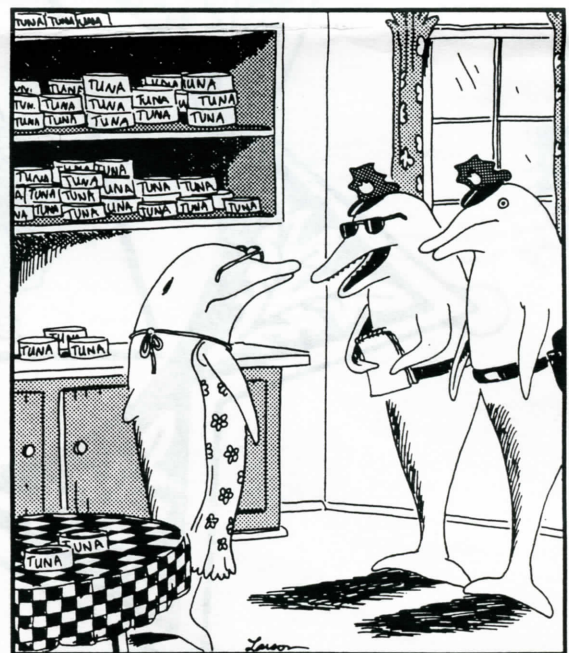
Utah Division of I.A.I.
Ms. Deborah Herrera-Parkin
Salt Lake County Sheriff's Office
Identification Section
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**Utah Division of I.A.I.
 Insignia Items**

The Utah Division of I.A.I. has baseball hats, t-shirts and Lapel Pins with the Division Insignia embossed on them. These items are available for a minimal charge and look great! The prices for these items are as follow:

- Hats \$5.00**
- T-Shirts \$8.00 (any size)**
- Lapel Pins \$3.00 Members**
\$5.00 Non-members

Contact 1997 President, George Throckmorton at (801) 799-3133 or Editor, Scott R. Spjut at (801) 965-4501 for further information or to purchase these items. Likewise, we have these items available at the Division Semi-Annual Meetings.



"Sorry, ma'am, but your neighbors have reported not seeing your husband in weeks. We just have a few questions, and then you can get back to your canning."

PRESIDENTS MESSAGE

The Fall Session of our biannual training has passed. We had an excellent program for the Fall Session. Agent Carl R. Keener of the F.B.I. Forensic Training Unit at Quantico, Virginia was our guest speaker. Agent Keener put on a very well received program including some "hands-on" practice time along with the lecture presentation. All who attended the session came away very much enthused about what he presented. The Utah Division of I.A.I. appreciates the time Agent Keener took out of his busy schedule to add to our Fall Meeting.

During the business portion of the meeting our elections were held. Because Jon T. Stimac, the 1996 Vice-President accepted employment with the Oregon State Crime Lab, it necessitated that he resign from his officer position within the Division. As part of the election, there were offices for both the 1997 President and Vice-President. George Throckmorton, Supervisor of the Salt Lake City Police Dept. Crime Lab was elected President for 1997. Don Thurgood, Criminalist at the State of Utah Northern Crime Lab was elected as Vice-President for 1997. In addition, the current offices of Secretary, Treasurer, and Editor were given votes of confidence and will be returning to their offices for the New Year.

The business portion of the meeting included a general vote to raise the membership dues from \$10.00 to \$15.00 per year. This added amount will assist in covering the costs for printing the newsletters, and the price of mailings. In addition, there are plans to purchase a Division banner which will be displayed at International Seminars each year. Furthermore, a good presentation was given by Jeff Itami for the Division to host the International Association for Identification Annual Seminar in 1999. All in attendance voted for agreement in pursuing this possibility.

Our Spring Division Meeting is due to be held in the southern end of the State in April 1997. Would anyone in the Southern counties who would be willing to assist in hosting this meeting in April, please contact either the President or the Editor and let

them know when would be best for your agency. There are usually a minimum of 20-30 members in attendance.

Finally, Treasurer Deborah Herrera-Parkin gave a financial report for the 1996 year. The Division is in reasonably good financial shape. We are getting applications in for new memberships and are continuing to steadily grow in numbers. All in all, our organization is very robust and will be strong into the far future.

Thanks to all of your support this year while I have been President. I hope I can leave this office with the Utah Division of The International Association for Identification in a stronger, better position than when I took over the reins. Thank you again.

Richard L. Wright
1996 President
Utah Division of I.A.I.

Latent Print Examiner
Certification

The Utah Division of the International Association for Identification congratulates Scott R. Spjut on his recent achievement of passing the International Association for Identification Latent Print Examiner Certification Test! Scott received notification of his successful achievement on September 7, 1996.

There are now two Certified Latent Print Examiners in the State of Utah, both of whom also belong to the Utah Division of I.A.I.

The International Association for Identification has certification for many areas of Forensic Investigation including Latent prints and Crime Scene Investigations. It is highly recommended for anyone who investigates crime and testifies in court to pursue certification. In many agencies, certification by the I.A.I. is a requirement for employment. Certification is one of the most important accomplishments to have in your background as an expert.

NEWSLETTER ARTICLES

Key Molds, Silicone, and Fingerprints

Trent G. Grandy
Crime Lab Technician
Salt Lake City Police Department
December 11, 1996

On June 18, 1996, burglary detectives requested the Crime Lab to process evidence for latent prints. The items checked out of the evidence room turned out to be two plastic molds with "key" impressions. The molds had apparently been made by pressing the keys into a plastic substance when it was soft, and then allowed to harden. In pressing the keys into the molds the maker had also left behind several ridge impressions. These impressions were to be compared to ten-print cards and sets of palm prints from two suspects which were provided by the detective.

Using oblique lighting from an alternate light source, the ridge patterns in the molds were examined. A possible match was made to a loop in the proximal area of the hypothenar of one of the suspect's right palm. The next step was to photograph the mold ridge impression and the suspect palm card. A Polaroid MP-4 Land Copy Camera with 75mm lens and using Polaroid 667 B&W film was used to enlarge the image of the ridges to about 3:1 for immediate comparison purposes. Once again an alternate light source at an acute angle was shown across the surface of the mold to enhance the darkness of the furrows, which in the impression state were in actuality the ridges. There were 21 points recorded by this method and used to confirm the I.D. match. Next, 35mm color photos were taken of the overall molds and the palm card to record the evidence. A Nikon N70 camera with a 60mm lens and Scotch 200 speed film was used for this procedure.

Following the photos, casts of the mold impression were attempted. First, a thin layer of silicone rubber release agent was sprayed over the surface of the area to be cast. The first cast attempt was with the use of a type II alginate dental stone. The substance was mixed and poured over the mold and then allowed to set. When the

cast was dry it was removed and set aside.

I next tried the rubber silicone cast. The liquid silicone rubber was also mixed and applied by pouring over the mold. The mold was then tapped on the sides and bottom to gently release and settle out any air bubbles from the surface, and the cast allowed to dry for thirty minutes.

After drying, the second cast was removed. The edges were then trimmed from the casts to allow them to lay as flat as possible. Using fingerprint ink pads, the casts were inked and rolled onto the paper. A comparable inked impression with 27+ points was produced from the rubber silicone cast. There were 12+ points produced with the alginate. These inked impressions were used to verify the ID match to one of the suspects.

It should be noted that the cast of the mold was more successful in detecting matchable points than were the enlarged photos. This is due to the ability of the casting material to cover more area than with the camera equipment and enlargement process we employed. Additionally, the alginate molds have in our past experience been found to shrink and distort over several days. This is believed to be caused by drying out over a long period of time. Therefore, when using alginate we have found it necessary to make the inked prints from the cast as soon as possible after harding. It is most important to mix the casting substances to the right consistency, so that it will flow over the substrate, but not run off. It should then be tapped thoroughly to remove any bubbles.

Two other cases with the same M.O. had occurred in the past month and the Crime Lab's part of this investigation was a pivotal point in the case. In summary it should be noted that the suspect's fingerprints were identified by both photography and two different molds. The rubber silicone mold proved to be the most beneficial in this instance, but fingerprint identification could have been made using either method.

Another case closed as a result of scientific evidence.

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“When I got home, Harold’s coat and hat were gone, his worries were on the doorstep, and Gladys Mitchell, my neighbor, says she saw him heading west on the sunny side of the street.”



The International Association For Identification
Utah Division of I.A.I.
Chartered 1989

Membership # _____ Date Received _____ Amount Received _____

I make application for Membership in the Utah Division of I.A.I. in accordance with its Constitution and By Laws, and agrees to be bound therewith. I am submitting the following with this application:

1. Membership Dues **\$15.00 Annually**
2. Permission to allow background check

Name: _____ Title: _____

Department/Agency: _____

Office Address: _____

Residence Address: _____

Send Business Mail To: Office () Residence ()

Telephone: Office _____ Home _____

Have you ever been convicted of a crime? Yes () No () If yes, state details:

Forensic Disciplines: (list in order 1,2,3)

_____	Latent Print Examiner	_____	Forensic Art/Police Artist
_____	Police Photographer	_____	Polygraph Examiner
_____	Crime Scene Specialist	_____	Questioned Documents Examiner
_____	Firearms & Toolmarks Examiner	_____	Voice Identification
_____	Forensic Studies Student	_____	Crime Lab Specialist (area) _____

Others _____

MEMBERSHIP APPLYING FOR:

Professional Member: Consists of heads of bureau of identification or investigations, including persons under their supervision; persons engaged in the science of identification, crime lab analysis, crime scene investigators, heads of police departments or sheriff offices; employees of federal, state, county, or city governments; persons engaged in private investigation work or subdivisions thereof.

Associate Member: Consists of reputable persons who are wholly or partially engaged in any of the various disciplines of the science of identification, who are not qualified of Professional Membership, are hereby eligible to become Associate Members, subject to the same rules, fees, and charges, and are entitled to these same rights and privileges as Professional Members except they shall not be entitled to election of an office of Vice President of President.

Degrees and/or Honors _____

Recommended By: _____

Member Number: _____

Signature of Applicant: _____

Date: _____

Approved By: _____

Title: _____