

# F.D.I.A.I. NEWS

SINCE OCTOBER 1961

QUARTERLY ISSUE

JANUARY/MARCH 1991

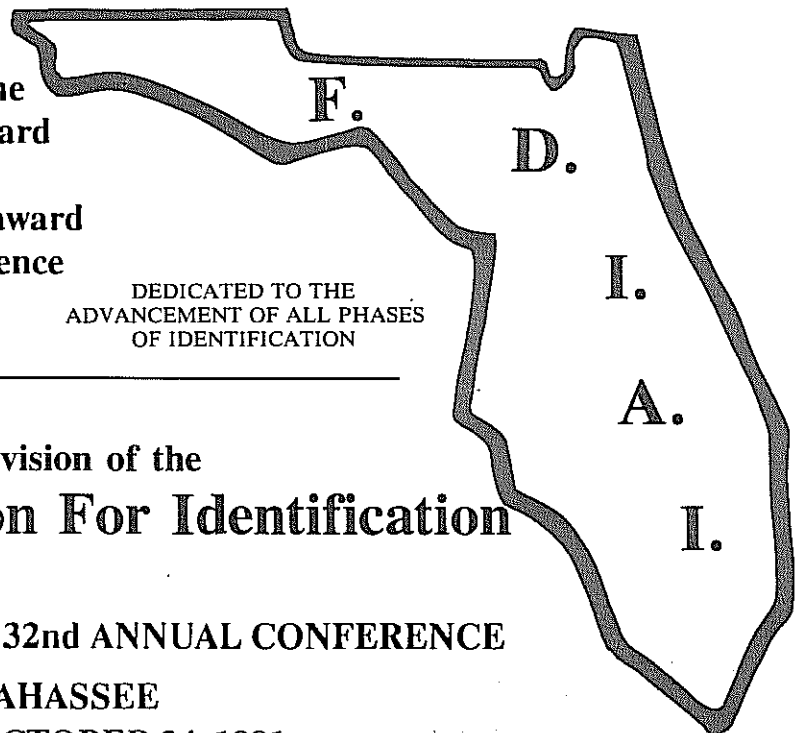


President Sam McMullin presents the Identification Officer of the Year Award to Dawn Walters of the Jacksonville FDLE Laboratory. Dawn earned the award for her innovative processing of evidence in a bank robbery examination.

DEDICATED TO THE  
ADVANCEMENT OF ALL PHASES  
OF IDENTIFICATION

Florida State Division of the  
**International Association For Identification**

PLAN NOW TO ATTEND THE 32nd ANNUAL CONFERENCE  
IN TALLAHASSEE  
OCTOBER 21 - OCTOBER 24, 1991





PAYTON SCIENTIFIC INC.

244 Delaware Avenue, Buffalo, N.Y. 14202

### LUMA-LITE



The LUMA-LITE was designed for both laboratory and field applications and will provide a full 15 watts of light energy at 450 nanometers with a 20 nanometer band width. The output of light energy is variable with a control, 7-15 watts. Fluorescence of natural fingerprints can be readily observed in any dark area with especially good contrast on substrate surfaces having low natural fluorescence.

Latent prints that have been polymerized with cyanoacrylate vapours may be dyed with Rhodamine 5 or 6G, DCM or Waterprint. These prints are visible with the LUMA-LITE under low ambient light conditions. A 485 to 500 nanometer filter is used to cause Zinc Chloride Ninhydrin treated prints to fluoresce on paper under dark-room conditions.

The LUMA-LITE with its proprietary high intensity arc tube has been shown to be an excellent source for the detection of body fluid stains such as semen, urine, sweat and saliva stains. The LUMA-LITE is a valuable tool for the detection of these stains both at a crime scene and in laboratory use and is, therefore, an invaluable tool to any police investigator, crime scene technician or crime laboratory examiner. Departments of Serology and Toxicology have reported a 15-25% improved find and match ratio when examining surfaces, hair and fabrics using the LUMA-LITE system. Printing inks and paper fibers also fluoresce well with the LUMA-LITE.

The LUMA-LITE system has a self-contained power supply which consumes 440W @ 115V AC, ideal for older buildings with original wiring and for field generated power. A 230V 50 Hz unit is also available. The basic unit weighs approximately 16 pounds and is supplied in an aluminum carrying case which protects the LUMA-LITE and standard accessories. A spare lamp and fuses, which are considered consumables, are contained within this portable instrument and the unit is supplied with a 6' AC power cord. Disposable plastic covers are provided for the aluminum feet to eliminate transference of surface material from one crime scene to another. The dimensions are 15" x 13.5" x 5". Provision is made to accept 1/4-20 NC standard camera tripod mounts. A light guide system is available as an accessory which plugs in, as do the filters. The liquid filled light guides are similar in size to the fibre optic system but are more effective at the generated wavelengths of the LUMA-LITE. We envisage that principal applications would be inside small areas, scanning overhead points of entry or simply directing the light energy in any convenient manner. The accessory "Beam Deflector" deflects the broadscan beam in a convenient manner for a hands-free examination of evidence, photography and is ideal for in or under motor vehicles.

Two sets of KV550 goggles are supplied with the system and a KV550-50mm diameter filter is supplied for mounting on your camera. Other sizes are available.

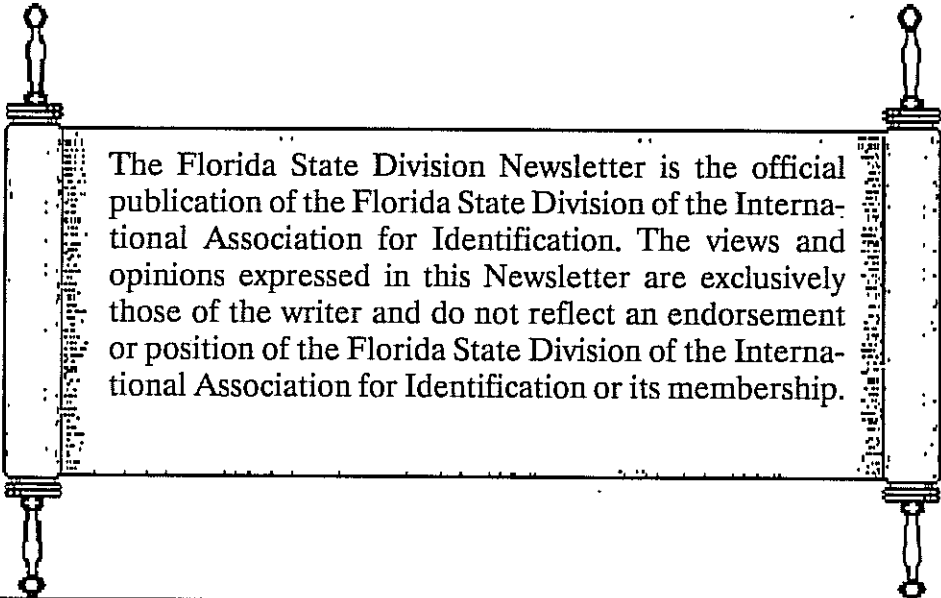
The LUMA-LITE is a welcome technological breakthrough in source light energy for law enforcement applications without the inherent high initial and maintenance costs of a laser. The units are user servicable.

For further information contact: Robert Baker at (716) 855-1314

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**TABLE OF CONTENTS**

From the President's Desk FDIAI President, Herman Moulden	2
Superglue Fuming Porous Items Prior to Ninhydrin: Friend or Foe? SA Cynthia M. Orton	3 - 6
Meet Me in St. Louis (Helpful information about the IAI conference in St. Louis)	7 - 8
IAI Conference Registration Form	9
Job Announcements	10
General Announcements, <u>May 18th Meeting</u>	10
District Updates	11 - 12
Crime Scene Certification Committee Report Frank Shonberger, Chairman	12
Proposed Budget 1990/1991	12
October 25, 1990 Annual Business Meeting Minutes	13 - 14



The Florida State Division Newsletter is the official publication of the Florida State Division of the International Association for Identification. The views and opinions expressed in this Newsletter are exclusively those of the writer and do not reflect an endorsement or position of the Florida State Division of the International Association for Identification or its membership.

**FROM THE PRESIDENT'S DESK**

It will soon be six months since the last conference and there is still much to accomplish. I have received some replies from the inquiry in the last Newsletter and the indications are that more members would like to become involved in the operations of the Association. This is good news and we will attempt to find ways to involve them. If nothing else, any member should contact their District Director and volunteer assistance in holding the district meetings. Also, I cannot emphasize enough the need of the Editor to receive articles from members. The Secretary/Treasurer and I just completed an unpleasant task; members who had let their dues become delinquent were dropped from the Newsletter mailing list and one last notice was sent to them requesting that they bring their dues current. Many of these members were relatively new and apparently we were not providing what they needed but some were also members with over ten years membership. To lose a long term member is troubling.

Frank Reinhart is hosting the spring business meeting on May 18th at the St Petersburg Police Department. At this meeting we will decide on any action to take at the IAI Conference in July and other matters of interest. One topic to be discussed is the Secretary/Treasurer position. This position is now combined into one but the constitution allows it to be two separate positions. With the increased membership over the past several years the work load is becoming too great for one person. We will request that the Board of Directors vote to separate the positions once again.

We also look forward to receiving reports from the Crime Scene Certification committee. Crime Scene Certification is set up to accommodate differing levels of knowledge and experience and it appears that it is highly successful. Many members have been certified. Perhaps the IAI Latent Certification Board could look toward the Crime Scene Certification Board to determine how our

members could be more adequately served via latent certification. This is not to say that the reports from the other committees will not also be interesting. However, there are some of the disciplines served by Science and Practices Sub-committees which are inactive. We might look at some of these disciplines to determine their future status within FDIAl.

I must apologize to John Fischer, Director of District 4, for the mistake with his telephone number on the back cover of the Newsletter (his zip code was placed in the phone number space). His correct phone number is 407-836-3764 or 836-3715.

I have recently received a letter from Robert Helferstay, District 7 Director, which included a petition signed by a large number of members in District 7 in support of changing the IAI Latent Print Certification requirements on education. This letter and the petition will be forwarded to the IAI Latent Certification Committee and other IAI officers. I encourage all members to make their opinions known either directly to the IAI or through the FDIAl.

Your Editor, Debbi Fischer, and I are attempting to get the Newsletter on a regular time schedule. It should be received in either the first month of the quarter or the month before the first month of the quarter. This issue is the Jan/March quarter and you will receive it in March. The next quarters issue is the April/June issue and will be mailed in May. We should be on schedule with the Oct/Dec issue being mailed in September. **We need your help to accomplish this. All District Directors and other officers with information (District Updates) to publish must get it to the Editor by April 15th.**

Longer articles should be received by the Editor no later than April 1st.

Remember, pay your dues on time and be active!

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## SUPERGLUE FUMING POROUS ITEMS PRIOR TO NINHYDRIN: FRIEND OR FOE?

By SA Cynthia M. Orton

SA Orton is a Latent Print Intern at the U.S. Army Criminal Investigation Laboratory at Ft. Gillem, Georgia. This article was originally presented as part of the Advanced Administrative Latent Print Course requirements on October 26, 1990 at the 73rd Session of The Advanced Administrative Latent Print Course held at the F.B.I. Academy. The views expressed in this article are the personal views of the author and are not to be construed as the official views of the F.B.I. Academy, the U.S. Army, or the U. S. Army Criminal Investigative Laboratory.

### INTRODUCTION

This research was begun as the result of a question posed by a U.S. Army Criminal Investigation Command (USACIDC) Special Agent as he attended a training course at the U.S. Army Criminal Investigation Laboratory -CONUS (USACIL-CONUS), Fort Gillem, GA in September 1990. Based upon a study conducted by SA William M. Thomas, Chief, Latent Print Division and Major David B. Perkins in 1988-89<sup>(1)</sup> USACIDC offices and other submitting agencies had been instructed, when feasible, to superglue process all non-porous items of evidence prior to shipping the evidence to one of the three U.S. Army Criminal Investigation Laboratories which are located in GA (USACIL-CONUS), Germany (USACIL-EUROPE), and Japan (USACIL-PACIFIC).

<sup>1</sup> David G. Perkins and William M. Thomas, "Cyanoacrylate Fuming Prior to Submission of Evidence to the Laboratory", (undated study conducted at the U.S. Army Criminal Investigation Laboratory - Europe, Frankfurt, Germany.)

**WHY YOU SHOULD READ THIS ARTICLE !**  
*"ALL TEST SPECIMENS SHOWED THAT REGARDING CERTAIN INKS, THE SUPERGLUE PROCESS PREVENTED THE INK FROM RUNNING OR ALMOST DISAPPEARING DURING THE NINHYDRIN PROCESS"*

This Special Agent had superglue fume processed a bottle and had then been challenged within his office because the bottle had a paper label attached. The question posed was, "had he ruined the paper label of further laboratory processing for latent prints?" A definitive answer could not be provided at that time due to two unknown factors. The bottle was not present for examination to determine if the label was porous or if it might have had a glossy or specially treated surface to resist moisture, placing it more in a non-porous category. According to D.G. Mooney, this type of treated paper can be successfully processed with ninhydrin by reducing the concentration to 0.4 % or less to reduce the overall discoloration of the evidence.<sup>(2)</sup> Further, as a general practice in the USACIL laboratories, this type of paper label is processed as non-porous along with any non-porous item it may be attached to. the second unknown factor was whether or not the superglue process would adversely affect ninhydrin development of latent prints on porous papers. An initial check within the office revealed no documented experimentation or research on file that had made any determination in this area.

### HISTORICAL BACKGROUND

It is basically common practice in the latent print profession that the ninhydrin technique is utilized for porous items and the superglue technique is utilized for non-porous items.

<sup>2</sup> D.G. Mooney, "additional Notes on the Use of Ninhydrin", Identification News, Vol. 23, (September 1973), pg 9.

About 1954, two Swedish scientists, Oden and Hofsten, were credited with being the first to advocate the use of ninhydrin as a means for developing latent fingerprints. However, it had already been recognized for over forty years prior to that, that ninhydrin reacted with the amino acids in sweat. There is general recognition that regardless of the concentration, type or solvent used and post processing treatment, latent prints may develop, but some will require a longer time to develop than others. The exact cause of this is not known, but it is likely that it is due to the type and amount of amino acids present in the latent print residue<sup>(3)</sup> and even possibly due to the physical/chemical makeup of the substrate on which the latent print residue has been deposited or absorbed.

About 1978, a Latent Print Examiner with the Tokyo Metropolitan Police Department, noticed a white fingerprint inside an unopened bottle of glue, thus discovering a new process of latent print development for non-porous items. The latent prints are made visible by vapor molecules that tend to accumulate upon the latent print residue and through polymerization (the molecules collect, begin a chemical attachment to one another and form long-chain solids<sup>(4)</sup>) the latent print becomes visible. "We know that it works, and how it works, but to date, no one is exactly positive about why it works."<sup>(5)</sup> One theory is simply that the vapor molecules react to moisture (99.0% to

<sup>3</sup> Walter R. Scott, SCOTT'S FINGERPRINT MECHANICS, rev ed. by Robert D. Olsen, (Charles C. Thomas Publisher, Springfield, IL), 1978, pg.278.

<sup>4</sup> Robert J. Hazen, "Significant Advances in the Science of Fingerprints", U.S. Department of Justice, Federal Bureau of Investigation, presented to International Conference on Fingerprints, London, England, (November 1984). PP. 21-22

<sup>5</sup> Paul T. Sahs and Raymond J. Wojcik, "Moisture Catalyst for Cyanoacrylate Fuming" IDENTIFICATION NEWS, September 1984, pg 9..

99.5% of perspiration is water<sup>(6)</sup>) in the latent print residue and plasticizes it (the polymerization process). One theory is that the vapor molecules of cyanoacrylate are positively charged and are therefore attracted to lipid (fat) deposits in the latent print residue which are negatively charged.<sup>(7)</sup> In actuality it may be one or a combination of both of these theories or even another theory not yet developed. The important thing is that it has been proven to work.

### PURPOSE OF THIS RESEARCH

The original purpose of this research (Phase I) was to determine if this polymerization process of the superglue technique would interfere or prevent further processing with the ninhydrin technique. Does the polymerization of the latent print residue prevent or hinder the ninhydrin from reaching the amino acids contained within the residue?

During Phase I, it became apparent that the inked writings that had been placed on the test specimens for purposes of identification were being affected. While this inked writing seemed to run on some of the specimens processed only with ninhydrin, their sister specimens that were processed with superglue fuming first, appeared to have stabilized the inked writing during the ninhydrin process. Due to this observation, the experiment was expanded into Phase II to determine if it may be desirable to superglue porous items containing inked writings prior to the ninhydrin process, to prevent the inked writings from running or bleeding on the substrate or disappearing altogether.

### MATERIALS

On October 1, 1990, thirteen military and civilian members of USACIL-CONUS volunteered to

<sup>6</sup> Scott, pg. 273

<sup>7</sup> Hazen, pg. 22

provide finger and palmprint impressions. Upon completion of the organized physical training session for that day, each volunteer was assigned an alphabetical letter and provided four sheets of white 8 1/2 by 11 inch white bond paper, on which sweaty impressions were placed. After placing matching alpha-numeric symbols on both sides (A1 and A1, A2 and A2, etc.), the sheets were cut in half.

The following solutions were utilized:

1. 20 grams ninhydrin  
5 one pound cans ethyl ether
2. 25 grams ninhydrin  
50 ml acetic acid  
Fill with ethyl alcohol to make one gallon
3. Ninhydrin <sup>(8)</sup>  
GENESOL V

The following equipment was utilized:

1. Superglue chamber utilizing a 100w light bulb as a heat catalyst with moisture added to the chamber.
2. Heat/humidity chamber with gauges set for 80 percent relative humidity and 80 degrees Fahrenheit.
3. During phase II, nine (9) different type ink pen writings (see figure 4) were added to the latent impression specimens labled K1-K4, L1-L4, and M1-M4

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<sup>8</sup> The ninhydrin solution utilized was under research and the formula was not available at the time of this writing. The premixed solution was provided by SA William O. Jungbluth for the purposes of this project. SA William O. Jungbluth, Latent Print Examiner, USACIL-CONUS, Fort Gillem, GA, interview, (October 1990).

## PHASE I

### PROCEDURE

The right half side of each specimen page was stamped with the words "Latent print Examinations" to indicate on each full page what half would be placed in the superglue chamber prior to the ninhydrin process. As previously mentioned each page was marked on both halves as A1 and A1, A2 and A2, etc. to ensure that the same latent impression was properly matched back after the processing and that they were processed with the same ninhydrin solution. In as much as the original question concerned such porous items as a label on a bottle, certain superglue specimen halves were taped to poster board prior to processing to simulate processing of only the front side of the paper.

The superglue specimen halves labeled A1 through J4 (a total of 40 test specimens) were placed in the superglue chamber from between 10 to 30 minutes.

After the superglue process was completed, both halves of the test specimens were placed through one of the three listed ninhydrin solutions. The test specimens were then placed into the heat/humidity chamber from between 30 minutes to 2 hours. The halves were then compared to determine if the superglue process adversely affected the ninhydrin.

### OBSERVATIONS

With the exception of 8 test specimens processed with the ethyl alcohol solution, no difference in quality, intensity, or ridge detail was noted in the remaining 32 full page test specimens between the superglue processed half and the ninhydrin only half (see figures 1,2, and 3). The 8 test specimens that did not properly develop were reasonably excluded from the final conclusions due to the fact that the solution used had been rendered ineffective due to a chemical reaction with the inner surface of the laboratory atomizer. The ethyl alcohol

solution specimens that were not processed through that atomizer were fully developed.

It was also observed that certain of the alpha-numeric codes applied to the specimens with a black ball point pen had been affected. It appeared on numerous specimens processed with either ethyl alcohol or GENESOLV 2020, that the superglue processed half did not show the ink running as on the other half processed only with ninhydrin. This observation lead to Phase II.

## PHASE II

### PROCEDURE

Nine different types and/or colors of ink pens were used to write sample sentences on the test specimens labeled K1 through M4 (a total of 12 specimens). The specimen sheets were cut in half and processed as in Phase I. The right half of the page was superglue fumed for 30 minutes (front and back). All 24 halves were then immersed in one of the three listed ninhydrin solutions and placed into the heat/humidity chamber for 15 minutes.

Once again, the superglue fumed halves of the specimens developed to the same quality, intensity and ridge detail as the non-superglue fumed halves after being immersed in the ninhydrin. In addition, all test specimens showed that regarding certain inks, the superglue process prevented the ink from running or almost disappearing during the ninhydrin process (see figures 5, 6, and 7). On 2 of 4 specimens processed with the ethyl ether solution, even the ink from the red felt tip pen was prevented from running. This ink ran on the remainder of the specimens irregardless whether the specimen was superglue processed or not. On the 4 specimens processed with the GENES-OLV 2020 solution, the ink from the blue ball point pen, the black ballpoint pen and the red felt tip pen ran. On the superglue processed half, only the ink from the red felt tip pen showed signs of running. On the

4 specimens processed with the ethyl alcohol solution, the blue ball point pen, the black ball point pen, the green rolling ball pen, the red plastic point pen, the black felt tip pen, the green felt time pen and the red felt pen all ran or almost completely disappeared. On the superglue processed half, only the ink from the red and the black felt tip pens showed signs of running.

### CONCLUSION

In that only one type of porous paper, three types of ninhydrin solutions, and nine types of pen inks were utilized for this research, the author wishes to reaffirm that the results are to be considered a preliminary evaluation. The evaluation indicates that the polymerization that occurs during the superglue fuming process does not adversely affect ninhydrin solutions from reacting to the amino acids within the fumed latent prints. Furthermore, the superglue fuming of porous paper containing certain inked writings is desirable, dependent upon the ninhydrin solution to be used, in that it does prevent some of the inked writings from running or almost completely disappearing. Further testing and research will be conducted and reported as any further developments may occur.

### BIBLIOGRAPHY

Hazen, Robert J., "Significant Advances In The Science Of Fingerprints", U.S. Department of Justice, Federal Bureau of Investigation, presented to the International Conference on Fingerprints, London, England, (November 1984).

Jungbluth, Wiliam O., Latent Print Examiner, U.S. Army Criminal Investigation Laboratory - Continental United States, Fort Gillem, GA, interview, (October 1990).

Mooney, D.G., "Additional Notes On the Use of Ninhydrin", IDENTIFICATION NEWS, Vol. 23, (September 1973).

.....see "Friend or Foe" page 15.....



## MEET ME IN ST. LOUIS

### Information you need to know about the 76th Annual Conference of the IAI

1991 Conference P.O. Box 22104 St Louis, Missouri 63116

### CONFERENCE REGISTRATION

Included in this information bulletin is a pre-registration form for the 76th Annual Educational Conference of the IAI. Registration fees for the conference are \$100.00 if you are a member\* of the International Association for Identification and \$140.00 if you are a non-member. For planning purposes, a cut-off date of May 20, 1991 has been established. If your registration is postmarked after this date, add \$25.00 to the above fees.

Note: For the purpose of this registration, a member is defined as those who are listed on the IAI membership roster or who is on file with the Secretary/Treasurer as being a new member. All others must remit the non-member fees.

### ABOUT BASEBALL

Although the following information has not been officially released for publication by Major League Baseball, a suggestion to the wise is indeed sufficient. There is a strong possibility that the local professional baseball club may have a series against a team from northeastern Illinois which boasts the likes of a baby bear.

The normal starting times for these events are 7:35 PM on Fridays, 7:05 PM on Saturdays, and 1:15 PM on Sundays. When these two teams get together on the weekends, hotel rooms in the downtown area are at a premium. Please contact the hotel and make your room reservations as soon as you possibly can. This would be a fine time to come to St Louis early and see a professional baseball game. Remember that the hotel conference room rates are \$72.00 per night plus tax and will be honored 3 days prior and 3 days after the conference. You may contact the hotel directly at (314) 421-1776 or use the attached hotel reservation form. Be sure to mention that you are attending the IAI Conference. As more information become official you will be notified by future conference bulletins.

### PLAN YOUR STAY

The '91 Conference will be a 5-day conference beginning with the Presidential Reception on Sunday evening (July 7) and will continue until it's official conclusion after the installation of Officers Banquet on Friday evening (July 12). Please note these events to assist you with your travel plans. There is plen-

ty to do in St. Louis if you wish to come early and stay late. The conference hosts will be happy to assist you.

### TWA DESIGNATED AS THE OFFICIAL CARRIER

St. Louis is the international hub for Trans World Airlines and has agreed to be the official carrier for the Conference. Fares are 45% off the normal (Y) coach fare and 5% off the Super Saver Fare. Be sure to give the reservation agent our event code #CV10365 to take advantage of the discounted air fares. If you are a TWA frequent flyer, you will get a bonus of 2,000 miles for this conference plus extra miles for staying at the Marriott. If you are not a member, join and receive an extra bonus of 3,000 miles plus the mileage mentioned above. You can earn still more miles by renting a car from Budget.

### CALL FOR PAPERS

The conference organizers are currently accepting abstracts for papers to be presented during the educational sessions of the conference. If you or a colleague of yours wishes to present a paper, please contact Jim Duggan at the Metro East Forensic Science Laboratory, Illinois State Police, 10023 Bunkum Rd., Fairview Heights, IL. 62208, (618)397-6653, FAX (618)397-0560, or at P.O. Box 22104, St. Louis MO. 63116.

### DRIVERS INFORMATION

Due to a well planned and convenient highway network, the entire St. Louis metropolitan area is easily accessible. If traveling by car, here is some mileage information you may want to know:

Atlanta, GA--575; Baltimore, MD--824; Chicago, IL--287; Denver, CO--874; Houston, TX--817; Indianapolis, IN--244; Jackson, MS--503; Milwaukee, WI--387; Nashville, TN--318; New Orleans, LA--700; Orlando, FL--1030; Springfield, IL--96; St. Paul MN--547; Washington, DC--821

### SHOPPING

There are several shopping centers in and around the St Louis Area. A few of these are listed for your shopping pleasure: Galleria: St. Louis' newest shopping center feature 115 stores, restaurants, a food court, a four screen theater, and fresh food markets. Plaza Frontenac: Houses 63 shops, 5 restaurants, and includes prestigious stores such as Saks Fifth Avenue, Nieman-Marcus, and Gucci. St. Louis Center: A 100 store shopping mall in the heart of downtown. It also contains a "Taste of St. Louis" food court featuring 20 restaurants. This shopping paradise is just 3 short blocks from the Marriott Hotel. West Port Plaza: Cozy European-style Boutiques that

offer gifts from around the world, 34 shops and 15 restaurants are located here, along with a theater.

### MAJOR ATTRACTIONS

**THE GATEWAY ARCH:** The symbol of spirit and achievement that St. Louis played in our nation's westward expansion and indicative of the Spirit of St. Louis. At 630 feet tall and 630 feet wide, the Arch is the nation's tallest man-made monument. Delegates and their families may ride to the top and see a breathtaking view of the city. Located just two blocks east of the hotel.

**LACLEDE'S LANDING:** A nine-square block area. The original site of the city of St. Louis which has been restored and renovated and is now a major entertainment and commercial centre. A variety of restaurants, shops, office buildings and galleries are nestled between cobblestone streets. Music, fine food, and entertainment are also to be found on the Landing. Located just 6 blocks north and 4 blocks east of the Marriott.

**MISSOURI BOTANICAL GARDEN:** One of the most beautiful and unique botanical gardens in the United States. The National Historic Landmark features the Climatron, the world's first geodesic domed greenhouse, and the largest traditional Japanese Garden in North America.

**SIX FLAGS OVER MID-AMERICA:** One of the finest family amusement centers in the nation, with thrilling rides, live entertainment, sidewalk artists, skill games, comical costumed characters and picturesque landscaping in a 200 acre setting.

**THE MUNY:** Features the best in popular musical theater entertainment, each year in its unique outdoor setting and provides indoor entertainment at the Fox Theater.

**ST. LOUIS UNION STATION:** A former railroad terminal, is still a vibrant as ever in its second life as a multi-entertainment complex that houses restaurants, shops, musical revues and a man-made lake for row boating.

**THE ST. LOUIS ZOO:** In a garden-like setting of 83 acres, you can visit more than 2,500 animals. One of the most renowned zoos in the world features a 3-1/2 acre children's zoo and two new natural, spacious habitats called Big Cat Country and Jungle of the Apes.

**BUSCH MEMORIAL STADIUM:** Located just across the street from the Marriott, is the home of the once World Champion St. Louis Cardinals and the St. Louis Sports Hall of Fame. Plan to be in St. Louis over the weekend of July 5 - 7, 1991 and take in a ball game prior to the conference.

**BOWLING HALL OF FAME:** Adjacent to the hotel is the National Bowling Hall of Fame. Children and adults alike will be able to tour the history of bowling as it progressed through the early days. Then enjoy bowling a line or two on "old-timelanes" complete with pin-setters and then on the ultra-modern lanes of today with computerized scorers, etc.

...AND MUCH, MUCH MORE....

### ABOUT THE MARRIOTT PAVILION

The conference hotel is situated on the corner of Broadway and Market Sts. in the heart of downtown St. Louis. It is within walking distance to Busch Stadium, Bowling Hall of Fame, Gateway Arch and just about every major attraction in the St. Louis area.

This majestic hotel has 670 climate controlled rooms, suites and parlors with in-room pay movies and cable TV. It boasts standard features like a state-of-the-art fire protection and security system. Plus non-smoking and accessible rooms.

The restaurants are among the best in St. Louis and are very reasonably priced. J.W. Carver's, the finer dining restaurant of the hotel features prime rib roasted to perfection as well as Continental and American dishes such as juicy steaks, chicken, veal and fresh seafood. Try the Pavillion Restaurant for everything from a light snack to a full dinner.

If the St. Louis summers seem to be a bit too much for you, the Bi-State Transit Authority operates air conditioned bus routes through all of the major downtown shopping centers and attractions. The "Levee Line" as it is called, is easy to use. Just get on and go! Not many things in this life are free, but the Levee Line is!

### MAKE YOUR DIVISION NOTICED

If your chartered division would like to take an ad in the Official Conference Program, the fees are as follows:

Business Card Size	\$50.00
Quarter Page	\$75.00
Half Page	\$100.00
Full Page	\$150.00
Back Cover	\$325.00

If you know of a business in your area that would like to take an ad, remit the above fees along with a camera ready copy to Donna Knight, Adbook Chairperson, P.O. Box 22104, St. Louis, MO 63116

INTERNATIONAL ASSOCIATION FOR IDENTIFICATION

76 th Annual Educational Conference

St. Louis, Missouri July 7 - 12, 1991

CONFERENCE REGISTRATION FORM

(Please type or Print)

Delegate Name: \_\_\_\_\_ Member # \_\_\_\_\_

Address: \_\_\_\_\_

Phone ( ) \_\_\_\_\_

NAME OF FAMILY MEMBERS ATTENDING:

- 1) \_\_\_\_\_ SEX AGE
- 2) \_\_\_\_\_ SEX AGE
- 3) \_\_\_\_\_ SEX AGE
- 4) \_\_\_\_\_ SEX AGE

NAME OF GUEST(S) ATTENDING

NAMES(S): \_\_\_\_\_

ADDRESS: \_\_\_\_\_

ZIP \_\_\_\_\_

TYPE OF REGISTRATION

(Before May 20, 1991 Please

- \_\_\_\_\_ \$100.00 Member (\$125.00 after May 20)
- \_\_\_\_\_ \$65.00 Family or Guest (\$90.00 after May 20)
- \_\_\_\_\_ \$34.00 Child (12 and under) (\$45.00 after May 20)
- \_\_\_\_\_ \$140.00 Non-Member Delegate (\$165.00 after May 20)
- \_\_\_\_\_ \$25.00 Daily - Registration (does not include social events)

TOTAL FEES \$ \_\_\_\_\_

Please remit all fees in U.S. currency, by check or money order, payable to:

1991 IAI CONFERENCE REGISTRAR  
P.O. BOX 22104 ST. LOUIS, MISSOURI 63116

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**JOB ANNOUNCEMENTS**

Latent Print Examiner  
Jacksonville Sheriff's Office  
Jacksonville, Florida

Salary: \$2189.00 - \$3030.00 per month.

Position available in the Crime Lab Unit of the Sheriff's Department. Applicant must be a High School graduate or G.E.D. Applicant must have a minimum of 1 year of experience in the classification of inked fingerprints and a minimum of 2 years of experience in comparing and identifying latent prints of which one year must include testifying in a court of law as an expert witness in latent fingerprint matters. Must pass a written examination including Latent Print comparisons, as well as an Oral Board, Medical Exam, Narcotic/Drug screening and background investigation. Department is currently using N.E.C., AFIS and applicant will be trained to use this system. Equal Opportunity Employer.

Contact: Lt Suber, Crime Lab Jacksonville  
Sheriff's Office P.O. Box 2070 Jacksonville  
ville, Florida 32202 (904)630-2218

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**SPRING BUSINESS/BOARD OF DIRECTORS MEETING**

WHERE: ST PETERSBURG POLICE DEPT

WHEN: SATURDAY MAY 18th

Time: 9:00 am

For those who must stay overnight Frank Reinhart has recommended the following motels:

BilMar Beach Resort (on the beach)

10650 Gulf Blvd, Treasure Island

Phone 813-360-5531 (mention that it is for FDIAl)

Rates \$52 Single, \$56 Double

Valley Forge Motel

6825 Central Av, St Petersburg

Phone 813-0135 (ask for Don and mention FDIAl)

Rates \$30 - \$35

If you are flying in, the airport to use is Tampa International. Contact Sam McMullin or Scot Carey

Latent Print Examiner  
Manatee County Sheriff's Office  
Salary \$25,625.40 - \$39,790.40

The Manatee County Sheriff's Office has an opening for the position of Latent Print Examiner. Prefer applicants to be certified by I.A.I. Must be able to pass I.A.I. certification or comparable test. Must have a minimum of three (3) years experience in fingerprint identification or which two (2) years should be in related matters. Duties include maintaining latent fingerprint file, developing, evaluating and comparing latent fingerprints, searching latent prints generated from open cases through inked print files and testifying in court.

Contact: Major Foy, MCSO, 515 11th St. W., Bradenton, Fl 34205-7727. Phone (813) 747-3011 ext 2241. E.O.E.

*Note: As a service to subscribers and to agencies, the F.D.I.A.I. Newsletter will publish job announcements from governmental law enforcement agencies without cost to the submitter. Job announcements should be mailed to the Editor at the address on the back cover.*

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at the Tampa FDLE Lab (813-871-7125) or Frank Reinhart at the St Pete Police Dept (800- for assistance from the airport to your motel.

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## DISTRICT UPDATES

### DISTRICT IV, John Fischer.

The next District Four meeting is scheduled for March 15th at 9:00 am at the Osceola County Sheriff's Office Training Center. The meeting is going to be in the form of a workshop entitled Forensic Art and the Psychic. Noreen Rainer, an instructor with Rollins College and a psychic, will be discussing the role between the psychic and the forensic artist. Be sure to bring your art supplies as this is a hands-on-meeting. This workshop is not limited to just forensic artists. Anyone interested may attend. For further information contact Lucy Ross, Osceola County Sheriff's Office at 407-348-1117 or 407-348-1150. Letters regarding the workshop are being sent out.

A recovery of Buried Bodies and Skeletal Remains workshop and a Physical Developer processing workshop are just some of the other topics I have received. If there are any other topics you would like to have for a workshop/meeting, just let me know. Also, if anyone wants to volunteer a meeting place and their assistance for these meetings, that would be greatly appreciated. I would like to have these meetings in other areas besides Orlando to allow those who do not wish to drive any distance an opportunity to attend these meetings. Remember, they also do not have to be on a weekend. If during normal working hours or in the evening is more convenient for some or you give me a call or drop me a line letting me know.

Don't forget to pay your dues. Notices have been sent out to several people concerning delinquent dues. To continue receiving the Newsletter, you need to keep them current. Send your dues to the Secretary/Treasurer whose address appears on the back cover of this Newsletter.

My new work phone number is 407-836-3764 or 407-836-3763 for those of you who need to contact me.

### DISTRICT I, L.L. "L.L." Daniels

A meeting is being planned for the month of May. Letters will be sent out at a later date with more information. If anyone has suggestions for topics please drop me a line or give me a call.

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### DISTRICT V, Scot Cary.

A meeting was held on March 8th at the St Petersburg Police Department training center. The topics included the collection and preservation of Document and Microanalysis evidence as well as the role of the Medical Examiner at the crime scene.

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### DISTRICT VI, Joyce Seelbach.

District VI is planning to hold a District Meeting in April, notices will be sent to district members. Deputy Ernie Sperduto of the Manatee County Sheriff's Office retired in December 1990. Ernie has been a member of FDIAI since 1978. The Manatee County Sheriff's Office has positions open in the Identification Section. Contact Joyce Seelbach at 813-747-3011 ext 2276 for additional information.

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### DISTRICT VII, Robert Helferstay.

District VII has been continuing its district meetings. Recently many district VII members signed a petition and sent it to the FDIAI president for transmittal to the IAI Latent Print Certification Committee. The petition requests changes in the educational requirement for Latent Print Certification.

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## DISTRICT UPDATES

DISTRICT VIII, Thomas G. Fadul, Jr.

Congratulations to William Miller who recently celebrated 30 years with the Metro-Dade Police Department.

The District VIII Regional Meeting will be held March 21, 1991 at the Hollywood PBA Hall, 1605 S. 21th Ave, Hollywood, Fl at 7:00 PM.

I would like to welcome the following new members to District VIII: Kim Lesieur, Lt. Gil Thivener, Rena berry, Vonda Burkett, Darlene Keely, Vivian Hart, Rolanda Johnson, Elizi Robinson and Matt McCabe.

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### CRIME SCENE CERTIFICATION REPORT

The Florida State Division Crime Scene Certification Committee working in conjunction with the Crime Scene Certification Board has been reviewing applications for certification. As of September 15, 1990 a total of 139 applicants within the State of Florida have applied for certification.

The break down for the applicants are:

- 91 - Senior Crime Scene Analysis
- 36 - Crime Scene Analysis
- 12 - Crime Scene Technician

A total of 93 of these application review and approvals were or will be handled by the Florida State Division Crime Scene Certification Committee. The Crime Scene Certification Board refunds one third of the application fee to the Florida State Division Crime Scene Certification Committee.

Due to a bookkeeping error only 82 applicants were accounted for and a check for \$1,640.00 was forwarded to the Committee Chairman. This error was brought to the attention of Kathy Saviers, Secretary of the Crime Scene Certification Board. Additional funds in the amount of \$220.00 will be forthcoming.

During this Annual Meeting the Chairman of the Crime Scene Committee will be meeting with the Chairman of the Latent Certification Committee to discuss procedures for establishing an accounting system for the funds that will be managed by the Crime Scene Certification Committee.

This Report respectfully submitted on, Thursday, the 25th day of October in the year 1990 by:

M. Frank Shonberger  
Chairman  
Crime Scene Certification Committee

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### Proposed Budget 1990/1991

#### Income:

Dues (520 Members)	\$6,945.00
New Members (50)	\$1,000.00
Advertisements	\$400.00

Total Income	\$8,345.00
Balance brought frwd	\$4,700.00
Operating Income	\$13,045.00

#### Expenses:

Newsletter printing	\$2,500.00
All postage	\$850.00
Other printing	\$250.00
Miscellaneous office	\$200.00
District Meetings	\$800.00
Spring Meeting	\$150.00
IAI Conference Presidents expense	\$1,200.00

Total expense	\$5,950.00
Transfer to Money Market Acct	\$2,000.00
Balance to 91/92 Fiscal year	\$5,095.00

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**F.D.I.A.I. ANNUAL BUSINESS MEETING OCTOBER 25, 1990**

Meeting called to order by President Sam McMullin.

Minutes read by Karen Bryant. Motion to accept by Jim Gettemy. Second by Scot Cary.

Treasurers report (copies were passed out to each member). Motion to accept by Tom Fiorenza. Second by Herman Moulden. Accepted.

Audit and Finance Committee report read by Walt Steeb. Motion to accept by Danny Hasty. Second by Jim Murray. Accepted.

Committee Reports read by Glen Calhoun. Photography - No report. Firearms - No report. Questioned Documents - No report. Fingerprints - Report given. Voice and Acoustical - Report given. Crime Scene - Report given. Shoe and Tire - No report. Blood Stain - No report. Forensic Artist - Report given (Linda Galeener).

A request for the F.D.I.A.I. Financial support for mailing (\$140.00) and supplies (\$250.00) was made by Linda Galeener for the Forensic Artists. Discussion on this request - Jim Murray stated this type of budget request had to be brought before the Board of Directors for a vote.

Forensic Lab report given by John Fischer.

Motion made by Jim Murray to accept all reports as read. Second by Danny Hasty. Accepted.

Latent Certification report - Frank Reinhart. Florida Division 96 Certified Members. Motion to accept latent certification report made by Jim Gettemy. Second by Walt Steeb. Accepted.

Crime Scene Certification report - Frank Shonberger. Motion to accept crime scene report as read by Frank Reinhart. Second by Jim Gettemy. Accepted.

Laws and Legislation committee report - Danny Hasty. Motion to accept report as read by Jim Murray. Second by Scot Cary. Accepted.

**OLD BUSINESS**

Resolutions Committee Report - Glen Calhoun

Motion to waive reading of the repetitive preamble of each resolution made by Jim Gettemy. Second by Danny Hasty. Accepted.

Resolutions 30-2, 30-3 and 30-4 (see attached) were read.

Resolution 30-2 (Article V Section 9) Motion to accept by Herman Moulden. Second by Debbie Fischer. Accepted.

Resolution 30-3 (Article VII Section 1 Motion to accept by Jim Murray. Second by Danny Hasty. Accepted.

Resolution 30-4 (Article I Section 4) Motion to accept by Danny Hasty. Second by Frank Shonberger. Accepted.

Herman Moulden discussed the laser printer which has been purchased since the May 1990 meeting. It is saving the association approximately \$300.00 each Newsletter.

**NEW BUSINESS**

Recommendations 1 through 6 were presented by Laws and Legislation Chairman Danny Hasty. All were accepted by the membership. (see attached)

Resolutions 31-1 through 31-6 were read by Danny Hasty, Resolutions Committee Chairman. (see attached copies).

**Minutes continued.....**

Motion was made by Jim Gettemy to waive the preamble of each resolution. Seconded. Accepted.

Resolution 31-1, Article I, Section 1. Motion to accept by Danny Hasty. Second by Jim Murray. Accepted.

Resolution 31-2, Article I, Section 3. Motion to accept by Danny Hasty. Second by Jim Murray. Accepted.

Resolution 31-3, Article II, Section 2. Motion to accept by Danny Hasty. Second by Walt Steeb. Accepted.

Resolution 31-4, Article IX, Section 6. Motion to accept by Danny Hasty. Second by Jim Gettemy. Accepted.

Resolution 31-5, Article IX, Section 6. Motion to accept by Danny Hasty. Second by Jim Cute. Accepted.

Resolution 31-6, Article V By-Laws. Motion to accept by Danny Hasty. Second by Robert Helferstay. Accepted.

Nomination committee report read by John Lazaretto. Motion to accept by Merv Stephens. Second by Frank Reinhart. Accepted.

**F.D.I.A.I. Officers 1990 - 1991**

President - Herman Moulden  
 1st Vice-President - Kathy Taft  
 2nd Vice-President - Glen Calhoun  
 3rd Vice - President - Julie Shoff  
 Secretary/Treasurer - Karen Bryant  
 Editor - Debbie Fischer  
 Historian - Mandy Volkerson  
 Sgt at Arms - Merv Stephens  
**DISTRICT DIRECTORS**

#1 L.L. Daniels  
 #2 Doyle Woods  
 #3 Dawn Walters  
 #4 John Fischer  
 #5 Scot Cary  
 #6 Joyce Seelbach  
 #7 Robert Helferstay  
 #8 Thomas Fadul

See Minutes page 15

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- Lip at bottom average .010" for minimum shadow.
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- Engraved reticule true centered. Quality engraving produces a finely edge line.
- Glass perfectly round and edges machine ground.
- Lens and reticule are concentric.
- Barrel chrome plated highest quality.
- Sand cast mold.
- Inferior optics gives lens less than 4.5X Magnification. Not all settings are equally clear.
- Greater reticule distance creates distortion when examining prints.
- Are not consistent.
- Not consistent due to type of mold.
- Bottom sits on 3 pads which are not completely flat. Tolerance 10 times variance.
- Reticule ring steel, coarse chrome plate subject to rust.
- Lip at bottom .038" thick causing distortion.
- Size varies considerably. Not interchangeable with Faurot magnifier.
- Glass eccentric — image cannot be centered.
- Glass eccentric — hand ground edging rough.
- Not concentric in many cases.
- Poor plating, easily worn off.

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**FRIEND OR FOE, cont**

Perkins, David G. and Thomas, William M., "Cyanoacrylate Fuming Prior to Submission Of Evidence To The Laboratory", (study, U.S. Army Criminal Investigation Laboratory - Europe, Frankfurt, Germany, n.d.).

Sahs, Paul T. and Wojcik, Raymond J., "Moisture Catalyst For Cyanoacrylate Fuming", IDENTIFICATION NEWS, (September 1984).

Scott, Walter R., SCOTT'S FINGERPRINT MECHANICS, rev.ed. by Robert D. Olsen (Charles C. Thomas Publisher, Springfield, IL, 1978).

Reprinted from the Georgia Division, Forensic News, Vol. 20, No. 4, 4th Qtr, 1990.

Editors Note: We regret that the photographs which should accompany this article could not be printed.

**MINUTES, cont.**

President McMullin asked if there were any nominations from the floor.

John Wilson Nominated Ann Wingate for District 3 Director.  
Second by Herman Moulden.

There were no other nominations and all but District 3 were elected as nominated by the nominating committee.

There was a vote for District 3 Director with Ann Wingate and Dawn Walters being the candidates.

Ann Wingate was elected by marjority vote.

Motion to adjourn by Herman Moulden. Second by Frank Reinhart.  
Adjourned.

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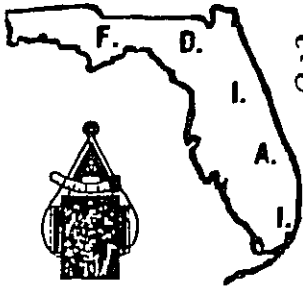
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Membership No. \_\_\_\_\_ Date Recd \_\_\_\_\_ Amount Recd \_\_\_\_\_ Date Accepted \_\_\_\_\_



Florida State Division of the  
**International Association for Identification**  
**APPLICATION FOR MEMBERSHIP**

\$15.00 Annual Dues  
5.00 Initiation Fee —  
\_\_\_\_\_ (Non-Refundable)  
\$20.00 Total

PLEASE RETURN TO:

**ATTACH  
PHOTO  
HERE**

(2" x 2" Photo)

I hereby make application for (Active) (Associate) Membership in the Florida Division of the International Association for Identification, in accordance with its Constitution and By Laws, and agree to be bound therewith. I am transmitting the following with this application:  
All applications MUST be accompanied by annual dues payment which will be refunded if application is rejected. A photograph 2" x 2" must accompany application.

PLEASE CHECK  
MAILING ADDRESS  
PREFERENCE

Name in full \_\_\_\_\_ Date of Birth \_\_\_\_\_

Business Title \_\_\_\_\_ Place of Birth \_\_\_\_\_

Business Address \_\_\_\_\_ (Zip/Postal Zone No. \_\_\_\_)

Home Address \_\_\_\_\_ (Zip/Postal Zone No. \_\_\_\_)

Business Telephone \_\_\_\_\_ Home Phone \_\_\_\_\_ County \_\_\_\_\_

1. Have you ever been convicted of a crime? Yes  No  (If Yes-State details fully). For more space attach additional page(s).

Please indicate up to three (3) of the following disciplines (numbered 1 - 3 with primary discipline as number 1) in which you are involved. If OTHER—please describe.

\_\_\_\_ . . . . .Fingerprint Identification  
\_\_\_\_ . . . . .Forensic Photography  
\_\_\_\_ . . . . .Voice Print & Acoustics

\_\_\_\_ . . . . .Polygraph  
\_\_\_\_ . . . . .Laboratory Analysis  
\_\_\_\_ . . . . .Crime Scene Invest.

\_\_\_\_ . . . . .Questioned Documents  
\_\_\_\_ . . . . .Firearms & Toolmarks  
\_\_\_\_ . . . . .Forensic Art

Other: \_\_\_\_\_

2. Employed by: \_\_\_\_\_

3. In What Capacity: \_\_\_\_\_ How Long? \_\_\_\_\_

4. State your qualifications for Membership: (Before answering this question, please read qualifications for membership below).  
For more space, attach additional page(s).

5. Degrees and/or Honors. For more space, attach additional page(s).

Recommended by: \_\_\_\_\_ (Signature of Member in Good Standing) Member No. \_\_\_\_\_

Address of Member making recommendation \_\_\_\_\_

**MEMBER QUALIFICATIONS**

**ACTIVE MEMBERSHIP:** The active membership of the F.D.I.A.I. shall consist of persons who are engaged in the science of identification and who are bona-fide employees of and are receiving salaries from National, State, County or Municipal Governments, or some sub-division thereof, and who are actively engaged in the practice of the profession within the state of Florida.

**ASSOCIATE MEMBERSHIP:** All reputable persons, wholly or partially engaged in any of the various phases of the science of identification and who are not qualified for active membership, are eligible to become Associate members. They shall in all respects be subject to the same rules, fees and charges, and entitled to the same rights and privileges as Active Members, except they shall not be entitled to vote or hold office.

Approved \_\_\_\_\_  
District Director or Committee Chairman



# *Code of Ethics*

As a member of the International Association for Identification and being actively engaged in the Profession of Scientific Identification and Investigation, I dedicate myself to the efficient and scientific administration thereof in the interest of Justice and the betterment of Law Enforcement.

To cooperate with other men of the Profession, promote improvement through research, and disseminate such advancement in my effort to make more effective the analysis of the expert.

To employ my technical knowledge factually, with zeal and determination, to protect the ethical standards of the Profession of Scientific Identification and Investigation.

I humbly accept my responsibility of Public Trust and seek Divine guidance that I may keep inviolate the Profession of Law Enforcement.

**PRESIDENT**

Herman Moulden  
Lakeland Police Dept  
20 Lake Wire Dr  
Lakeland, Fl 33801  
(813) 499-6953, 499-6900

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**SERGEANT AT ARMS**

Merv Stephens  
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P.O. Box 1489  
Tallahassee, Fl 32302

**DISTRICT DIRECTORS**

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Santa Rosa County Sheriff's Office  
9127 E. River Drive, Navarre, Fl 32566  
(904) 939-2493

**District 2**

Doyle Woods  
Tallahassee Police Dept  
234 East 7th Avenue, Tallahassee, Fl 32303  
(904) 681-4211

**District 3**

Ann Wingate  
Jacksonville Police Dept  
501 East Bay Street, Room 212  
Jacksonville, Fl 32202  
(904) 630-2211

**District 4**

John F. Fischer  
Orange County Sheriff's Office  
P.O. Box 1440, Orlando, Fl 32802  
(407) 32802

**District 5**

Scot Cary  
FDLE, Tampa  
P.O. Box 151776, Tampa, Fl 33684  
(813) 871-7125

**District 6**

Joyce Seelbach  
Manatee County Sheriff's Office  
1303 84th Street N.W., Bradenton, Fl 34209  
(813) 747-3011 Ext 2276

**District 7**

Robert Helferstay  
St. Lucie County Sheriff's Office  
131 North 2nd Street, Fort Pierce, Fl 34954  
(407) 461-7300 Ext 312

**District 8**

Thomas G. Fadul Jr.  
Metro Dade Police Dept  
9105 N.W. 25th Street, Miami, Fl 33172  
(305) 471-2000

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Members, All District Directors

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ADDRESS CORRECTION REQUESTED

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Orange County Sheriff's Office  
P.O. Box 560-546  
Montverde, Fl 34756 0546

**PAST PRESIDENTS**

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Victor Collins, 1961  
Tom W. Boen, 1962  
John F. Timmes, 1963  
Alex Russak, 1964  
William Knight, 1965  
Patrick Hickey, 1966  
William H. Scott Jr., 1967  
Thomas J. Spurlock, 1968  
Charles W. Gilbert, 1969  
Douglas Monsoor, 1970  
Jim Wingate, 1971  
Frederick A. Emrich, 1972  
Robert Grant, 1973  
Charles Jacobs, 1974  
William Leonard 1975  
Thurman R. Ray, 1976

Richard Snowberger, 197  
Ronald Boswell, 1978  
Jim Murray, 1979  
Edgar T. Pickett Jr, 1980  
Richard Hall, 1981  
Martin McLeod, 1982  
Francis E. Hitechew, 1983  
Frank A. Reinhart, 1984  
William H. McQuay, 1985  
Charles W. Miller, 1986  
Walter J. Steeb, 1987  
James B. Gettemy, 1988  
John Lazzaretto, 1989  
Samuel McMullin, 1990