Introducing the All-New CPS Pro
Reinventing the instrument that started it all...

TRADITION. INNOVATION. QUALITY.
Since 1930, Stoelting has been on the forefront of design and manufacture of reliable polygraph instrumentation. This third generation Computerized Polygraph System (CPS) represents the very latest in state-of-the-art digital technology and innovation.

CPS Pro available now at www.StoeltingCo.com!

NEW FEATURES:
- Updated high-resolution, 24-bit analog-to-digital conversion circuitry
- Records up to 12 channels
- Medical-grade LEMO and Luer inputs and connectors
- Use either Electronic or Pneumatic Respiration Transducer
- Use either Skin Conductance or Skin Resistance
- Cardiograph supports up to 200 mm Hg
- Plug-and-Play via a USB 2.0 connection. No driver installation is required
- Use with current easy-to-use, powerful, and feature-rich CPS software

*NEW THORACIC RESPIRATION CHANNELS
Records thoracic respiration using either our electronic Pneumotrace II Transducer or our Classic Pneumatic Pneumograph

*NEW ABDOMINAL RESPIRATION CHANNELS
Records and measures abdominal respiration using either our electronic Pneumotrace II Transducer or our Classic Pneumatic Pneumograph

CARDIO CHANNELS
Blood Pressure: Records relative blood pressure and pulse rate. Cardiograph provides continuous digital display of subject's pulse rate and cuff pressure, eliminating the need for a pressure gauge on the cardio tubing. Optimal cuff pressure is between 52 and 62 mm Hg for subject comfort. Range is 0 to 200 mm Hg.

*NEW Finger Cuff: Records blood volume and pulse rate from an occlusive finger cuff. Range is 0 to 200 mm Hg.

*NEW THORACIC RESPIRATION CHANNELS
Records thoracic respiration using either our electronic Pneumotrace II Transducer or our Classic Pneumatic Pneumograph

*NEW ABDOMINAL RESPIRATION CHANNELS
Records and measures abdominal respiration using either our electronic Pneumotrace II Transducer or our Classic Pneumatic Pneumograph

ELECTRODERMAL CHANNELS
Skin Conductance: Records electrodermal activity using a low constant voltage circuit (0.5V)

*NEW Skin Resistance: Records electrodermal activity using a low constant current circuit (2.5µA)

Aux 1 (Skin Potential): Records the electrical activities of the sweat glands themselves, with no external voltage applied to the skin

ADDITIONAL CHANNELS
Activity Monitor: Records subject body movements from an activity sensor pad.

Voice Marking Channel: Records the exact moment of question onset and offset (examiner), and the moment of answer (subject).

*NEW Aux 2: This channel was incorporated for future development. Future polygraph research efforts may be devoted to Pupil Diameter, Skin Temperature, EKG, Continuous Blood Pressure and more.

*TAKE ADVANTAGE OF OUR REDUCED PRICING FOR CPS II INSTRUMENTS!
8 Channel CPS II was $6,995, now only $4,495! 5 Channel CPS II was $5,995, now only $3,995!
### Contributors to this issue

- Robbie Bennett
- Barry Cushman
- Rachel Gaines
- Nate Gordon
- Mike Gougler
- Lisa Jacocks
- Manuel Novoa
- James Reistroffer
- Ronen Segev
- Pam Shaw
- Dan Sosnowski
- Bill Teigen
- Don Weinstein

### Deadlines

This issue closed on November 12, 2010.


### Submission of Articles

The *APA Magazine* is published by the American Polygraph Association. The mere publication of an article, new item, or notice in this Magazine does not constitute an endorsement by the American Polygraph Association. Adverstising and Editorial address is APA Editor, P.O. Box 10411, Fort Jackson, SC 29207, USA. Subscription address is: APA, P.O. Box 8037, Chattanooga, TN 37414-0037. Subscription rate is US $125.00, mailed first class. Outside US $150.00, mailed first class. Changes of address should be sent to: APA, P.O. Box 8037, Chattanooga, TN 37414-0037. The Publisher is not responsible for issues not received because of improper address information. Submission of polygraph-related newspaper articles should be sent to: Don Krapohl, P.O. Box 10411, Fort Jackson, SC 29207 or Editor@polygraph.org.

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MICJ SCHOOL CALENDAR

BASIC POLYGRAPH COURSE

Session I – January 10 – March 4, 2011
Session II - April 4 - May 27, 2011
Session III – September 12 – November 4, 2011

The MICJ polygraph program has been fully accredited by the APA since 1976. The course focus is on testing techniques most widely used by the US Army CID including numerical chart scoring, MZCT [Zone], Army MGQT, AFMGQT, POT and R/I for Applicant Screening by Instructors with over 150 years of experience.

The course meets ASTM Standards and is Approved
By AAPP and for Veterans Benefits

Call, Fax or email for booklet and enrollment information
SEE MICJ WEB SITE FOR ADDITIONAL DETAILS

APA APPROVED ADVANCED TRAINING

Post Convicted Sex Offender Testing Course
40-hour Course Dates:

March 7 – 11 & November 7 - 11, 2011

The basic 40-hour course for polygraph examiners. APA members may take the APA Examination to obtain APA PCSOT Certification.

FOR SALE: “Polygraph Test Question Source Book” by Billy H. Thompson
$22.00 [includes priority postage & handling]

“Nonverbal Communications...An Investigator’s Guide,” 2d Ed.
by Vickie T. Murphy-Carr, $31.00 [includes postage & handling]
MasterCard/Visa accepted – 1-800 493-8181

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Hanukkah Polygraph Lamp

Pictured at right is The Hanukkah Polygraph Lamp made of polygraph parts which was created by APA member Ronen Segev, government examiner in Israel.

He is also the artist who constructed the piece titled “Seeing is Believing,” a sculpture that appeared in a previous edition of the APA Magazine.

The APA and its Board of Directors wish you and your loved ones a safe and happy holiday season!
Editor’s Corner

Donald J. Krapohl

The APA is going digital.

As has been previously announced, the APA Magazine will go to a digital format in 2011, and APA elections will be conducted via the Web. The APA Board will redirect the money savings from electronic elections and APA Magazine to fund other important initiatives.

For the money-saving initiatives to work, APA members must ensure their email addresses are current at the APA National Office (manager@polygraph.org). A couple weeks before the APA Magazine was mailed out to the members, the APA National Office sent an announcement to the membership using the email addresses they had on file. Did you get the announcement? If not, you stand to miss reading the APA Magazine when it is issued electronically next year.

First, check to ensure the mail did not go into your spam file. If not, your email address at the National Office will need updating. Please take a moment to check.
Applicants for APA Membership

Aaley B. Catano-Cuartas
Denny A. Deaton
Bladimir Diaz-Escandon
Diogenes Dominguez
Christopher D. Dubiel
Todd A. Erickson
Evaristo Gomez
Griselda E. Gonzalez Sanchez
Rafael E. Gonzalez-Insignares
Anthony J. Hall
Victor H. Henao-Arias
Glenn E. Hiatt
Bradley D. Hughes
Barbara A. Lane
Justin H. Lockwood
Marcela Lopez-Hernandez
Roderick S. Mckean
Mario A. Marino-Brito
Constanza N. Orozco-Suarez
Hugo M. Padilla-Vaca
Thomas E. Platt
Brooks M. Raymond
Alvaro F. Rios-Saravia
Juan C. Rivera-Perez
Romulo I. Rodriguez
Amilcar N. Ruano-Tejada
Henry C. Schutte
Cesar R. Torres
Sandra P. Velasco
Luz A. Velez
Caludia L. Villamizar
Alexandra Zerda-Moreno

Itagui, Colombia
Hamilton, Ohio
Barranquilla, Colombia
Panama, Panama
Belcamp, Maryland
Bradford, Pennsylvania
Panama, Panama
Panama, Panama
Barranquilla, Colombia
Westminster, Maryland
Bogota, Colombia
Draper, Utah
Manassas, Virginia
Clayton, Missouri
Barboursville, West Virginia
Bogota, Colombia
Jacksonville, Florida
Quito, Ecuador
Ibague, Colombia
Bogota, Colombia
Aiken, South Carolina
Renton, Washington
Lima, Peru
Lima, Peru
Panama, Panama
Guatemala, Guatemala
Pretoria, South Africa
Guatemala, Guatemala
Bogota, Colombia
Bogota, Colombia
Bucaramanga, Colombia
Cali, Colombia

APA Upgrades to Full Member

Zohar Hanan-Moshe
Rebecca Landis
Marthinus C. B. Truter

APA Members at the 2010 Annual Seminar

photographs courtesy of Rachel Gaines
Upgrading Membership Classification
Associate to Full Member

If you have a college degree and you have completed a minimum of 200 polygraph examinations, request that your membership classification be upgraded from ASSOCIATE to FULL MEMBER.

In order for the Board of Directors to act upon your request, it will be necessary for you to:

Provide a notarized statement from your supervisor or knowledgeable colleague, who must be a full member of the American Polygraph Association, attesting that you have completed a minimum of 200 polygraph examinations.

Please forward the certification directly to:

APA National Office
P.O. Box 8037
Chattanooga, TN 37414

If you have any problems or questions regarding your membership, please call the National Office Manager at 800/272-8037 or 423/892-3992.
Students can earn up to 12 hours of undergraduate credit while completing training.

Troy University Polygraph Center
1117 Perimeter Center West, Suite N101, Atlanta, GA 30338
770-730-0033/1-866-426-1068
atlanta@troy.edu
The American Polygraph Association and the American Association of Police Polygraphists regret to inform its members, supporters and friends of the passing of Special Agent Peter T. Black on October 11, 2010. Pete suffered a massive heart attack on September 30, 2010, while conducting business concluding his 40 year military and federal civil service career, and subsequently succumbed during hospitalization.

During his distinguished military career, Pete served as a member of the U.S. Army “Old Guard,” famous for the protection and honor they render for fallen military members and the guarding of the Tomb of the Unknowns at Arlington National Cemetery.

In addition, Pete served as a Military Policeman and Chief Warrant Officer, Special Agent and polygraph examiner with the U.S. Army Criminal Investigation Division at numerous CONUS and worldwide posts and stations and as a supervisory polygraph examiner at the U.S. Army Crime Records Center.

After his military career, Pete joined the Department of Defense Office of the Inspector General (DoD OIG) and served as a Special Agent and Polygraph Examiner with the Department of Defense Criminal Investigative Service (DCIS).

Pete took great pride in his diligent work in many high level investigations and in doing so earned the respect and gratitude of his supervisors and co-workers.

Subsequent to his graduation from the United States Army Military Police School Polygraph Examiners Course in March 1982, Pete joined the American Polygraph Association (APA) remaining a member since May 1982 and the American Association of Police Polygraphists (AAPP) since June 1982. Through his membership in these organizations and his personal commitment, Pete consistently demonstrated his great regard for the professionalism of examiners and the furtherance of the profession. Pete lived an enthusiastic life and stood by his personal credo to “make the world just a little safer.”

Pete is survived by his wife Trudy, son John, daughters Christine and Lori, son-in-law Christopher and grandsons Patrick and Casey.

A ceremony celebrating his life was recently conducted and he will be interred with full military honors at Arlington National Cemetery on January 19, 2011.

**THE POLYGRAPH QUESTION**

**Q.** A premature ventricle contraction (PVC) always appears in the cardio channel as:

1. An extra heart beat
2. An upward spike in the tracing
3. A downward spike in the tracing

*(answer on page 23)*
**First World Congress of Forensic Sciences and Polygraph**

With nearly 300 professionals in attendance, the First World Congress of Forensic Sciences and Polygraph took place in Cartagena de Indias, Colombia, on October 21-23, 2010. This Congress, organized by the Latinamerican Polygraph Institute, was an academic forum with the goal of integrating the polygraph with the forensic sciences and criminalistics as tools that contribute to criminal investigations.

Among the 28 speakers participating, the attendees heard presentations from: Alfredo Rodriguez, Forensic Physician from Mexico; Bismark Espinoza, Forensic Psychiatrist from Honduras; Norman Sauer, Forensic Anthropologist from the United States; Angela Tapias, Forensic Psychologist from Colombia; Victor Guerrero, Forensic Physician from Mexico, and; General Luis Enrique Montenegro, Criminal Investigator and currently a Mexican Government Advisor. In the field of Polygraph and Forensic Assessment of Credibility, the speakers and scientific researchers were Dr. Frank Horvath, Dr. David Raskin, Dr. Charles Honts, Dr. Frank Marchak, and on behalf of the American Polygraph Association, Mr. Daniel Sosnowski.

The Second World Congress of Forensic Sciences and Polygraph will take place on May 1-4, 2012, in the city of San Jose, Costa Rica, with the sponsorship of the Euro American Institute of Criminalistics and Forensic Sciences.

Submitted by Manuel Novoa.

**Election of Officers - Latin American Polygraph Association**

On October 21 - 24 the Latin American Polygraph Association (ALP) held its annual meeting in Cartagena, Colombia, in conjunction with the First World Congress of Forensic Sciences and Polygraph. The ALP is a Divisional Member of the APA. The newly elected officers are:

- **President**: Ms. Maria Isabel Caicedo, Colombia and Canada
- **Vice-President**: Mr. Marco Baruco, Panama
- **Treasurer**: Mr. Sidney Wise Arias, USA
- **Secretary**: Ms. Carolina Bermudez, Colombia

**Election of Officers - California Association of Polygraph Examiners (CAPE)**

On November 5, 2010 CAPE elections were held. The results are as follows:

- **CAPE Officers**:
  - Janene Gordon, President
  - Ted Todd, Vice- President
  - Bob Heard, Secretary
  - Joe Bodnar, Treasurer

- **CAPE Board of Directors**:
  - Ron Hilley
  - Rick Jordan
  - Gary Hoss
  - Carol Atkinson, PhD
  - Tom Kinney
  - Darryl Bullens
National Center for Credibility Assessment

On November 18th the former Defense Academy for Credibility Assessment (DACA) held a ribbon cutting ceremony at its facility at Ft. Jackson, SC, to commemorate its redesignation as the National Center for Credibility Assessment (NCCA). Attending the event were program managers from among the 25 federal polygraph programs, as well as senior leaders from government, military, Ft. Jackson and congressional staff members. Speeches were made by the post commander, MG James Milano, and NCCA Chief William Norris, and the keynote address was delivered by BG Robert Carr of the Defense Intelligence Agency. The new name was based on NCCA’s national mission beyond the Department of Defense, and the organization’s broad focus that includes all technologies that can be applied to credibility assessment.

Pictured right to left are: Mr. William Norris, BG Robert Carr, and Mr. Donald Krapohl.

American Polygraph Association - 2010 Award Winners

We’re pleased to recognize the Texas Department of Public Safety Law Enforcement Polygraph School as co-recipient of the Cleve Backster Award at the 2010 APA Seminar banquet. As announced in the September/October Magazine, Director Mike Gougler was the other recipient of the Cleve Backster Award. Congratulations to all!

Physiology Instructor

Joel Reicherter, Professor Emeritus, SUNY and adjunct instructor at DACA is available to teach physiology at your school. Professor Reicherter is a practicing polygraph examiner and member of the APA. For information, please visit www.universitypolygraph.com.

Call for Papers

In 2010 the APA will publish a special edition on courtroom testimony. We are actively seeking original works that will assist APA members in the preparation, conduct, reporting, and testimony of polygraph examinations for court purposes. Areas may include, but are not restricted to PCSOT exams, evidentiary exams, Paired (Marin Protocol) Testing, stipulated exams, and court-ordered exams. Manuscripts will be accepted until December 31, 2010. Please send electronic copies to Editor@polygraph.org, or to PO Box 10411, Ft. Jackson, SC 29207.
APA Member Tony Reistroffer is an examiner with J&I Polygraph-Investigations, in Davenport, Iowa. Tony graduated from the Academy of Polygraph Science in 2003. He completed his PCSOT training in 2004. Tony previously worked for the state of Iowa, in Corrections, sex offender program.

Wanting to serve his country, Tony enlisted in the Illinois National Guard. He is currently on a one-year peacekeeping mission in Egypt (pictured to the right), and will return next May. For his selfless service to his country, and for actions that reflect credit upon the APA, Tony Reistroffer is our Examiner in the Spotlight.

Got DACA?

Are you a Federally trained polygraph examiner who holds a Top Secret or Top Secret/SCI security clearance? E-merging Technologies Group has multiple contractor polygraph examiner opportunities supporting Intelligence Community and Federal Law Enforcement programs. Contact Mr. Pat Roche at proche@etg1.com and Dr. Charlie Painter at cpainter@etg1.com for more details.
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1 deluxe pneumatic blood pressure cuff with large sphygmomanometer (one size fits all)
1 FingerCuff™ pneumatic blood pressure cuff
1 deluxe Pelican instrument case with custom padded divider set
1 OSS 1 & 2 scoring algorithms, courtesy of Donald Krapohl and Barry McManus
1 OSS 3 scoring algorithm, courtesy of Raymond Nelson, Donald Krapohl and Mark Handler
1 comprehensive full color printed and bound user's manual, and Integrated video tutorials
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- Integrated Zone Comparison Technique
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- Manual Algorithm for Data Analysis
- Integrated Interrogation Technique
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LATIN & SOUTH AMERICA: Tuvia Shurany
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2011 A.S.I.T. Courses
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May 16 – Jul. 8; Sept. 12 – Nov. 4

Advanced Polygraph ($450.00)
Nov. 14 and 15

Post Conviction (PCSOT) ($600.)
Mar. 7 – 11; May 9 – 13;
Jul. 11 – 15; Nov. 7 – 11

Advanced PCSOT ($450.)
July 18 – 19

Forensic Assessment Interviewing and Integrated Interrogation Techniques ($560.)
Jan. 24 – 28; Mar. 28 – Apr. 1;
May 30 – June 3; Sept. 25 – 30

Academy for Scientific Investigative Training
1704 Locust Street, Second Floor
Philadelphia, PA 19103 U.S.A.
www. Polygraph-training.com
1-215-732-3349

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Polygraph Examiner
Training Schedule

**Academy for Scientific Investigative Training**

January 10 - March 4, 2011
March 14 - May 6, 2011
May 16 - July 8, 2011
September 12 - November 4, 2011

**Advanced Polygraph**

November 15 - 16, 2011

**PCSOT**

November 8 - 12, 2010
March 7 - 22, 2011
May 9 - 13, 2011
July 11 - 15, 2011
November 7 - 11, 2011

**Advanced PCSOT**

July 18 - 19, 2011

**American International Institute of Polygraph**

January 3 - March 11, 2011 (10 weeks)
January 3 - February 25, 2011 (8 weeks)
March 14 - May 20, 2011 (South Africa)
April 11 - June 3, 2011 (Kentucky)
May 23 - July 29, 2011 (10 weeks)
May 23 - July 15, 2010 (8 weeks)
August 29 - November 4, 2010 (10 weeks)
August 29 - October 21, 2011 (8 weeks)
September 26 - December 2, 2011 (South Africa)

**Backster School of Lie Detection**

January 24 – March 18, 2011
June 6 – July 29, 2011
September 12 - November 4, 2011

**PCSOT**

November 15 - 19, 2010 (tentative)
March 21 - 25, 2011 (tentative)
November 7 - 11, 2011 (tentative)

**Advanced PCSOT**

November 20 - 22, 2010 (tentative)
March 25 - 28, 2011 (tentative)
November 12 - 14, 2011 (tentative)

**Annual Polygraph Examiner Work Conference**

December 6 - 10, 2010

**Marston Polygraph Academy**

January 10 – March 4, 2011
May 9 – July 1, 2011
September 12 – November 4, 2011

**Maryland Institute of Criminal Justice**

January 10 - March 4, 2011
April 4 - May 27, 2011
September 12 - November 4, 2011

**PCSOT**

March 7 - 11, 2011
November 7 - 11, 2011

**National Center for Credibility Assessment**

January 4 - April 6, 2011
April 26 - July 27, 2011
August 16 - November 17, 2011

---

Attention Directors of APA Accredited Schools

Want to see your school’s upcoming training schedule listed here? Simply e-mail your 2011 schedule listing to editor@polygraph.org. Please note that the closing date for the Jan/Feb 2011 magazine is January 7, 2011.
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- Two-Day Test Data Analysis Course (TDA)
- PCSOT (New APA Model Policy)
- Three-Day Interview and Interrogation Course

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Leonard Salcedo
President & Director
lsalcedo@ocpica.com

Joanne Honea
Assistant Director & Chief Instructor
jhonea@ocpica.com

www.ocpica.com

Trust, but verify
The National Polygraph Association will hold its 2011 Seminar and Business Meeting on January 24-26, 2011 at the Golden Nugget Hotel and Casino in Las Vegas, Nevada. A room rate of $49 + tax per night is available for seminar attendees. Hotel reservations can be made by calling 1-800-634-3454 and mentioning the National Polygraph Association (reservations must be made by 12/23/10 for this rate). Speakers are Mr. Jerry Carter, Mr. Tom Kelly, and Mr. Robert Lundell. Seminar fee is $125 member / $200 non-member (paid in advance) and $150 member / $250 non-member (paid at the door). For more information, contact Gary Davis at 785-828-3248 or email the NPA at nationalpolygraph@yahoo.com.

The New Mexico Society of Forensic Polygraphers and The American Polygraph Association will co-host a continuing education seminar on 16-18 February, 2011, in Albuquerque, NM. Accommodations will be at the Hyatt Regency Albuquerque, 330 Tijeras, NW, Albuquerque, NM. For further details and registration see pages 20-21 of this magazine.

The California Association of Polygraph Examiners (CAPE) will be holding a training seminar on February 25-26, 2011, at the Portola Hotel and Spa, Two Portola Plaza, Monterey, CA 93940. A special room rate of $129 single/double is available for seminar attendees, and reservations can be made by calling the hotel at 888-222-5851. Seminar fee is: CAPE members - $100/one day or $175/both days; Non-members - $150/one day or $250/both days. For complete conference details and registrations forms, visit the CAPE website at: www.californiapolygraph.com, or contact CAPE secretary, Bob Heard, at capesecretary@aol.com

The 2011 Annual Seminar of the American Association of Police Polygraphists is scheduled for March 28 - April 1 in Cambridge, MA, at the Hyatt Regency Cambridge, 575 Memorial Drive, Cambridge, MA 02139-4896, Phone: (617) 492-1234. The AAPP hotel group rate is $105.00 plus tax. If paid before February 28th, the seminar fees are $285.00 (AAPP members) and $410.00 (non-members). Registration inquiries can be made through the AAPP National Office (888) 743-5479. For more details visit the AAPP website, or contact Region III Director / Seminar Chair Jim Wardwell at (860) 826-3065 or e-mail Director3@policepolygraph.org.

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WEDNESDAY, FEBRUARY 16, 2011

11:00 AM  LATE REGISTRATION

1:00 PM  OPENING CEREMONIES:
          KATHY FULLER, PRESIDENT
          NEW MEXICO SOCIETY OF FORENSIC POLYGRAPHERS

1:15 – 5:00 PM  COUNTERMEASURES
                STEVEN D. DUNCAN
                GEORGIA DEPT OF PUBLIC SAFETY (SID)

3:00 -3:15 PM  BREAK

THURSDAY, FEBRUARY 17, 2011

ATTORNEY F. LEE BAILEY AND GORDON L. VAUGHAN

8:00 AM – 10:00 AM  LEGAL ISSUES AFFECTING POLYGRAPH ADMISSIBILITY

9:30 AM – 9:45 AM  BREAK

10:00 AM - 12:00 NOON  LAYING PROPER FOUNDATION

12:00 NOON – 1:15 PM  LUNCH ON YOUR OWN

1:15 PM – 3:15 PM  MOOT COURT

3:30 PM – 5:00 PM  SMALL GROUP TESTIMONY WORKSHOP

FRIDAY, FEBRUARY 18, 2011

8:00 AM – 12:00 NOON  SETTING CONTROLS
                      CHAD RUSSELL, APA TREASURER

9:45 AM – 10:00 AM  BREAK

12:00 PM – 1:15 PM  LUNCH ON YOUR OWN

1:15 PM – 5:00 PM  POST-TEST INTERVIEWING
                    STEVEN D. DUNCAN
                    GEORGIA DEPT OF PUBLIC SAFETY (SID)

3:00 PM - 3:15 PM  BREAK

NOTE:

“The presentations of the speakers and the materials at this seminar are designed to provide general information on the seminar topics presented in an effort to help polygraph professionals maintain their professional competence. The views of the speakers and contents of the materials presented have not been approved by the Board of Directors of the American Polygraph Association (APA) and, accordingly, should not be construed as representing the policy of the American Polygraph Association. The presentations and materials provided at this seminar are provided with the understanding that the APA is not engaged in rendering professional or legal services.”
THE AMERICAN POLYGRAPH ASSOCIATION (APA)
CONTINUING EDUCATION SEMINAR
CO-SPONSOR NEW MEXICO SOCIETY OF FORENSIC POLYGRAPHERS
FEBRUARY 16, 17 & 18,  2011
ADVANCED REGISTRATION IS REQUIRED

APA FED ID # 52-1035722

FEBRUARY 16, 17 & 18, 2011
1:00 PM - 5:00 PM, WEDNESDAY, FEBRUARY 16
8:00 AM – 5:00 PM, THURSDAY, FEBRUARY 17
8:00 AM – 5:00 PM FRIDAY, FEBRUARY 18

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$250.00 Non-Member

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OR FAX IT TO 423-894-5435

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SIGNATURE

CES-Albuquerque, New Mexico (2/16-18, 2011) (We can't possibly reach everyone who would be interested in taking part in this seminar. Please help us by making photocopies of this page for your co-workers and business associates. Thanks for your assistance).
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Then, all you need to do is send your electronic ad in .jpeg or .pdf file format, to the editor at editor@polygraph.org.

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As always, we publish (at no charge) in each Magazine a listing of upcoming polygraph training sessions for APA accredited schools.

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THE POLYGRAPH QUESTION

Answer: (3) A downward spike in the tracing.
American International Institute of Polygraph
Address: PO Box 686, Morrow, GA. 30260-0686
1115 Mt. Zion Road, Suite F, Morrow, GA 30260
Phone: 866.477.5180 Fax: 770.960.1355
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BASIC - 2011 - United States

Professional Polygraph Examiner's Basic Training Program

Winter 2011
Schedule 1: January 3 - March 11, 2011 (Morrow-Atlanta, GA) 10 weeks
Schedule 2: January 3 - February 25, 2011 (Morrow-Atlanta, GA) 8 weeks

Spring 2011 (Kentucky)
ONLY Schedule 2: April 11 - June 3, 2011 - 8 weeks only

Summer 2011
Schedule 1: May 23 - July 29, 2011 (Morrow-Atlanta, GA) 10 weeks
Schedule 2: May 23 - July 15, 2011 (Morrow-Atlanta, GA) 8 weeks

Fall 2011
Schedule 1: August 29 - November 4, 2011 (Morrow-Atlanta, GA) 10 weeks
Schedule 2: August 29 - October 21, 2011 (Morrow-Atlanta, GA) 8 weeks

BASIC - 2011 – South Africa

Professional Polygraph Examiner's Basic Training Program

Schedule 1: March 14 – May 20, 2011 (Pretoria) 10 weeks
Schedule 1: September 26 – December 2, 2011 (Pretoria) 10 weeks

PCSOT & ADVANCED PROGRAMS TBA
Legislative Update

Stanley M. Slowik

Genetic Information Nondiscrimination Act of 2008

The Equal Employment Opportunity Commission (EEOC) has issued final regulations for the new Genetic Information Nondiscrimination Act (GINA) effective 11/9/10. Basically, employers and their agents are prohibited from requesting, requiring or purchasing genetic information in regard to hiring or disciplinary actions of existing or possible employees. As explained in detail elsewhere [Polygraph, Vol 38, No3, 2009], the EEOC specifically prohibits requiring “health” information of polygraph subjects even when only used to determine examination suitability for testing. When polygraph examinations are given prior to Conditional Offer of Employment, most polygraph schools and the APA Standards of Practice indicate that there are very good reasons for requesting such information and two federal Appellate Courts had determined that pre-employment polygraph examinations must be given prior to Conditional Offer of Employment.

In addition, the EEOC now requires employers to warn vendors providing healthcare information to not include genetic information and provides the following language as an example of fulfilling this requirement:

“The Genetic Information Nondiscrimination Act of 2008 (GINA) prohibits employers and other entities covered by GINA Title II from requesting or requiring genetic information of employees or their family members. In order to comply with this law, we are asking that you not provide any genetic information when responding to this request for medical information. ‘Genetic information,’ as defined by GINA, includes an individual’s family medical history, the results of an individual’s or family member’s genetic tests, the fact than an individual or an individual’s family member sought or received genetic services and genetic information of a fetus carried by an individual or an individual’s family member or an embryo lawfully held by an individual or family member receiving assertive reproductive services.”

While the EEOC permits employers and their agents to note “health” information obtained by inadvertent means prior to Conditional Offer of Employment (on credit reports, mentioned during reference checking, observed during interviews and polygraph examinations, etc.), the EEOC forbids discussing the information in the pre-offer phase. In addition to suitability for testing issues, examiners should be concerned about requests for reasonable accommodation without being able to adequately evaluate the basis for the request. The Americans With Disabilities Act Amendments Act requires employers to focus on determinations of reasonable accommodation rather than what qualifies as a disability. Examiners are advised to discuss the new GINA requirements with legal consul to determine if any changes to polygraph procedure and policy are necessary.
President’s Message

Nathan Gordon

We had our Board of Directors’ teleconference in November and I was pleased to see all of the Board members had focused on their assigned tasks. I believe we have a great deal of talented and dedicated people on the Board and I anticipate it will be a very good year for our association.

Michael Gougler has already put most of the pieces together for what appears to be a great seminar in Austin, Texas next year. Marty Oelrich continues making upgrades to our website and electronic balloting should be ready by our next election. Jimmy Padgett’s pet project, “Mentoring” is beginning to take life. Bill Teigen does an excellent job with the Grievance Committee and is working on changes to make the process even more efficient. Pam Shaw has made communications with the many State Associations a simple matter. Chuck Slupski is refining the PCSOT testing process and hopefully we will make in-roads in Community Safety Testing, which will mirror our PCSOT testing into other avenues of deviant behavior, such as Domestic Abuse and Driving Under the Influence. Barry Cushman is working on streamlining the applicant process, as well as keeping a close watch on developments in the Forensic Science arena concerning polygraph.

We will have several members attending the American Academy of Forensic Sciences annual seminar, and we will send two of our Board Members. I would implore members to consider joining that association. I have been invited to be part of the AAPP’s panel concerning our NAS concerns at their annual seminar in Boston, which appears similar to our panel that took place in Myrtle Beach.

I have started recruiting members for the International Committee and hope to have representation from around the world on the committee with a member invited to attend Board meetings representing our global membership, on a rotating basis.

I hope to use a portion of the money we will save by publishing our newsletters electronically to begin a regular advertising campaign in such magazines as the International Chief of Police Association, to impress upon law enforcement that polygraph is the “gold standard” for truth verification. In addition, I plan on our Public Relations Committee to do a series of presentations for the legal community concerning our profession and making them more aware of what we do and how we can be of assistance to them.

Although it will not affect my term of office, I believe that we should consider making the positions of President and President-Elect two year terms. A one year term does not give the people you have elected to these critical positions much time to accomplish their goals for our association. I hope you will give me feedback concerning your views on this issue.

If you have any comments, concerns, or if I can be of assistance to you please feel free to contact me.

From the 2010 APA Seminar: (left to right) Jimmy Padgett, VP Government; Skip Webb, Past-President; Nate Gordon, President; T.V. O’Malley, Past-President.
I want to remind you of a couple things I (and others) mentioned last time. First, you’ll recall that the membership voted to offer the magazine in electronic format in 2011 (as soon as we have a system that we are sure can handle it), at which time we’ll do away with hard copies. (You’ll also be able to download archived copies from the member’s section of the website.) The switch from paper to an electronic version will save over $50,000 each year, a portion of which will be used for PR purposes. With that in mind, I want to now ask you if you are sure the National Office has your most up-to-date contact information – including a valid email address. It is vitally important that the National Office has that information. Remember: electronic voting is also coming soon, and Robbie needs to know how to get in touch with you. If you haven’t yet taken care of that, please put this down (I know how hard that will be, but it’s for the best) and contact the National Office with that information. We don’t want to miss anybody.

Also, I mentioned it last time, but some of you might have gotten distracted with other things and forgot about it: In 2009, the NAS completed its review of the forensic sciences as requested by the US Congress. While they didn’t address polygraph (because, they said, in essence, polygraph evidence isn’t usually offered by forensic scientists), the problems noted are, for the most part, also applicable to polygraph. We, as a profession, need to make sure we, like the other forensic sciences, are actually utilizing evidence-based methods and making scientifically defensible decisions. To assure we are doing that, individualized (meaning you and me) certification of proficiency is coming to all the forensic sciences, and we are no different. If you didn’t see the seminar presentation on the NAS report, consider attending the presentation at the AAPP seminar in Boston in 2011. This is a vitally important issue, and it will impact all of us.
Continuing on the topic, if you read the full report (also available online), you’ll see that the American Academy of Forensic Sciences (AAFS) was heavily cited. For those of you attended the seminar presentation, Dr. Frank Horvath talked briefly about the AAFS and encouraged examiners to consider joining. (You can learn about them and download an application on their website: http://www.aafs.org.) They share many of our goals. Their mission: “The American Academy of Forensic Sciences is a multi-disciplinary professional organization that provides leadership to advance science and its application to the legal system. The objectives of the Academy are to promote integrity, competency, education, foster research, improve practice, and encourage collaboration in the forensic sciences.” They are holding their annual conference in February (in Chicago). While the agenda is not yet available, it is expected that the issues cited in the NAS report will be heavily discussed and addressed. The BOD has agreed to send Director Raymond Nelson (Research and Education Chair) and me (NAS ad-hoc Chair) to the conference. It is our hope to return better prepared to address the needs of our profession, and to continue to gain respect and acceptance among forensic scientists from other disciplines. Unrelated to our trip there, Dr. Horvath and Director Marty Oelrich have been approved (and they reject a lot of requests) to present on polygraph at the conference.

We are making great strides, and this is a great time to be in the polygraph profession, but we all must continue (and I know I’m preaching to the choir here) to better ourselves and make sure we are using the best techniques and principles science can support. So, don’t neglect continuing education and keeping your skills finely honed. Check with your state or regional associations for upcoming conferences, and get to them when you can. Don’t forget the NPA has its annual conference in January (in Las Vegas), and, as I already mentioned, the AAPP has its seminar coming up at the end of March through the first of April. Of course, the APA will be in Austin next year, so there are plenty of opportunities to get some good training under your belt.

As always, if there is anything I can do for you, please don’t hesitate to reach out to me. Godspeed.

Bill Teigen
Vice President, Private

Fellow APA members, let me discuss with you some issues that are occupying some of my APA responsibilities: As recently as October 25, 2010, we have a total of 309 APA members who have not paid their dues for calendar year 2010 and, therefore, their memberships have been suspended. That is 11% of our total membership. I doubt that you reading this article are one of those 309 because; I hope we stop spending money on printing and postage to send our world-class reference materials to you if your membership is suspended! Just in case we errored and you are getting this magazine and haven’t paid your membership of 2010 (a year almost in the history book), please do so and, while you are at it, send in your dues for CY 2011.

Speaking of membership in the APA, the APA Board members just received a list of 86 applicants for APA membership to approve. 33% of those applicants reside in the United States. Over 33% of the applicants come from Singapore. That shows the general membership how valuable it was for us to have the seminar put on in Singapore early this year. It also shows good work on the part of our sponsor from Singapore, Cholan and his associates, and our President-Elect, Pam Shaw, who was the seminar chair. Remember also that that seminar was put on at a profit to the APA, not an expense.

You have read or you know from being there that at our seminar in Myrtle Beach, South Carolina in September we voted on whether or not to change our organization’s name to the International Polygraph Association. We also voted on creating a new board of directors’ position, Vice President-International. You’ve heard me rant before about the extremely poor attendance we have every year at our General Membership meetings. At best we can usually expect a third of our registered members will attend. This year was no different. I know that the first issue, a name change for the APA, did not get 50% support of the voting members but the second issue came much closer to passing. Ironically, many of our International members used the time of our general membership meeting to go “shopping” at the nearby outlet mall. Had those folks stayed and voted, I believe we would now have a new board position. In my very humble opinion, both issues will return to the agenda and will be approved by our voting members in the near future.
Let me speak to you briefly from my position as General Chair of the Ethics and Grievance Committee. My experience over the last three years is, if you are doing applicant screening, marital (fidelity) testing and/or PCSOT testing, you probably are a candidate for a complaint to be filed against you in the APA. Two of those three categories are necessary in our profession and I’ll let you guess which one is not on my list of preferred professionalism. In days gone by, the average examinee would have no way of knowing the APA Constitution and By-laws. Today though, rules and standards of practice are two clicks away on a computer and complainants can access our rules and interpret them to fit their needs. Imagine how many of our examinees do that research and find some verbiage that, to them and maybe us, represents a violation of our Constitution/By-laws. If founded, a complaint against you might result in the termination of your membership in the APA.

One other issue that the board and I are having great concerns about is complaints against our International members and how we conduct a viable investigation. An example we have had to consider deals with one or more of our International members whose main marketplace of polygraph testing is “fidelity” testing and that country’s practitioners do the “fidelity testing” in the residence of the client that hires them? Show me a “win-win” scenario in doing that kind of professional work. It is a good thing that I am not King in the APA because I would ban “fidelity testing” without a third party mediator.

Finally, I’ll admit our Constitution/By-laws do not make good “bed-time reading” but I would encourage you each to spend a brief period of time every month reading our rules and refreshing your professional standing to know you are doing the right thing.

**Mike Gougler**

Director

Fellow Professionals,

Planning for the 2011 Seminar is underway with a quality training seminar already taking shape. We will have a research block that presents several current issues by renowned researchers from the scientific community. Those who are interested in PCSOT training will be able to obtain a substantial portion of their required training. There will be many hours of applicable training for law enforcement, government, and private examiners.

Special thanks to the Texas Association of Law Enforcement Polygraph Investigators (TALEPI) for co-sponsoring this seminar. Brian Vaughan, President of TALEPI, has agreed to sing the National Anthem and the Texas Department of Public Safety Honor Guard will present the colors. I hope to have the speaker schedule finalized by the mid-year board meeting in March 2011.

The Awards Committee has been formed and the members are listed below:

- Michael C. Gougler – Chairman
- Cholan V – Member
- Frank Chambers – Member
- Chris Fausett – Member
- Sabino Martinez – Member
- Dick Keifer – Member

Please send in your nominations.

The Seminar Committee consists of:

- Robbie Bennett (Co-chair)
- Nate Gordon (Co-chair)
- Michael Gougler (Program Chair)
- Walt Goodson
- Brian Vaughan
- Matt Hicks
- Jon Thornhill
- Ray Nelson
- Kelly Hendricks
- Pat O’Burke
- J.D. Thomas

We are looking at including a 16 hour block of the PLEA Mentorship Program in the seminar schedule. This would be advantageous in the training of new examiners, as well as, oversight of small department programs.

The Tuesday night event will be a Texas-style barbecue dinner and country band for dancing at the Salt Lick restaurant. Cost is $15.00 per person with free transportation provided by our vendors; Axciton, Lafayette, Limestone, Stoelting, and Complete Equity Markets.

We will also have a hospitality room several evenings for networking and relaxation.

I hope to have a schedule in the next magazine. Hope to see you in Austin!!

---

*From the Board*
There have been a number of projects that have been completed or are currently underway since the 2010 conference. This has included the successful completion of a Request for Proposals process that has been established for the APA assisting in providing funding for research by thesis and doctoral student. This also includes substantial projects which are currently underway by the Website Committee and the new Ad Hoc Subcommittee on Electronic Voting. These two committees will be working together throughout the foreseeable future. Accordingly, for those members who do not have an email address on file with the APA National Office, please forward an email message to manager@polygraph.org including your first and last name and current email address. The national office will likely be providing a confirmation email to you that will include your membership ID number. It is essential that the APA National Office have a current active email address and for you to have your membership ID in order to engage in the 2011 elections. Please ensure you complete this task as soon as possible as these items will be needed to authenticate your membership for the 2011 electronic vote.

The Electronic Voting subcommittee has reviewed several proposals from outside companies to assist in conducting the 2011 election. However, the committee has not made a commitment to any of the companies as of date. Regardless, electronic voting will decrease the time and costs involved in the election process and will assist in diminishing the concern of members regarding bias. This process will be completely anonymous and the only information that will be accessible to the APA is that an individual voted, which is tabulated through the authentication process, which will indicate you logged into the applicable website and voted.

Please note that due to the challenges associated with changing the voting process from mailed paper ballots to electronic ballots, there will be several attempts to test run this system. This will include the APA National Office sending a bulk email to all APA members with instructions to access the APA website at www.polygraph.org and access the most recent APA Magazine, which will be available via a downloadable PDF file. If you do not receive this email, you will need to contact the APA National Office and update your email address on file. This process will serve as a means of ensuring the email addresses on file are accurate and will assist us in identifying those members who do not have an email address on file. If you do not have an email address and do not intend to create one in the coming months, please contact the APA National Office and request a paper ballot for the 2011 elections. To all other members, prior to the beginning of the voting process, you will receive an email from the company we contract with providing instructions on voting, which will include the date and time voting will open and close, a link to the website where you will need to login, and the information you will need to login, which was discussed above. Following the closing of the 2011 elections, the results will be available immediately. However, the opening and closing dates for voting have not yet been determined.

The Website Committee is currently preparing to release a reformatted website with a significant number of upgrades that will remediate a number of long standing problems. This will include upgrading the appearance of the website, which will be representative of professional associations. As a result of the upgrade process, there may be times when certain links of the members only content are inaccessible. However, please feel free to contact me if you have any questions, comments or concerns.

The APA also had an exhibitor's booth at the Association for the Treatment of Sexual Abusers Conference on October 20-23, 2010, in Phoenix, Arizona. I was the official representative of the APA and had an opportunity to engage in a significant number of conversations with consumers of polygraph examinations, as well as some detractors. The conference was a success and we provided approximately 100 copies of the APA Model Policy for Post-Conviction Sex Offender Testing.

If you have any questions, comments, or concerns regarding the APA Website, the 2011 elections, or any other topic, please feel free to contact me via email at website@polygraph.org.
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September 20 - November 12, 2010 (PE-183)
January 24 - March 18, 2011 (PE-184)
June 6 - July 29, 2011 (PE-185)
September 12 - November 4, 2011 (PE-186)

2-DAY POLYGRAPH FOR IMMIGRATION LAW (I-CARE) COURSE (Cost $300)
Tentatively scheduled for summer, 2010 (Register online to be placed on information list)

POST CONVICTION SEX OFFENDER TESTING TRAINING (PCSOT) COURSE ($600)
(Tentative) November 15 - 19, 2010
(Tentative) March 21 - 25, 2011
(Tentative) November 7 - 11, 2011

3-DAY ADVANCED PCSOT WEEKEND (SAT, SUN, & MON) TRAINING SEMINAR ($400)
(Tentative) November 20 - 22, 2010 (Taught to both JPCOT & APA Standards)
(Tentative) March 26 - 28, 2011 (Taught to both JPCOT & APA Standards)
(Tentative) November 12 - 14, 2011 (Taught to both JPCOT & APA Standards)

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53rd Annual December 6 - 10, 2010
54th Annual December 5 - 9, 2011

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San Diego, CA 92101
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Website: www.backster.net e-mail: clevebackster@cs.com

Quotables
Whoever is careless with the truth in small matters cannot be trusted with important matters.

- Albert Einstein

Attention: If you ran a high profile examination that would be educational and informative to your professional colleagues, the APA Magazine would be a great place to get the word out. These articles typically run about 1000 - 1500 words. The test charts are also helpful. If you have a case to share, send your article to Editor@polygraph.org.

from the 2010 Seminar

Keith Gaines

1. Overview:

The Masseter Movement Sensor (MMS) is designed to address and resolve potential issues in operational polygraph testing. The MMS consists of a portable audio amplifier or computer with sound card, with a high impedance microphone and sealed circumaural studio headphones with piezo-electric transducers implanted in the ear cups. The transducer signals are transmitted to the auxiliary channel of a computerized polygraph system for display on the graphical user interface. The specific issues the MMS is designed to address are as follows:

A. The identification of spurious movements of the masseter muscle of the lower jaw, or mandible during the operational phase of a polygraph examination (e.g., tongue bite, tongue pressed against the roof of the mouth, tongue rolled against the roof of the mouth, clenching of the teeth, etc).

B. Problems associated with the presence of significant outside noise during a polygraph examination, particularly in operational locations where an optimal testing environment is not possible.

C. Prevention of psychophysiological arousal caused by an examiner’s voice inflections, changes in volume, stuttering, or mispronunciations. In most computerized polygraphs an automated test question stimulus program can be utilized that employs an automated voice or a prerecorded human voice, thereby eliminating potential voice inflection issues. The recorded voice can be made part of the polygraph file, and in screening settings the recorded voice can be reviewed and approved by polygraph supervisors in advance.

2. There are a myriad of reasons a polygraph examiner would benefit from the ability to accurately identify spontaneous movements of the masseter muscle during a polygraph examination.

The opinions in this article are those of the author, and do not necessarily represent those of the US Department of Defense or US Government.
These movements can arise consciously or unconsciously. In either case, spurious movements of this muscle group can distort the graphical display of physiological data, potentially leading to a “No Opinion” examination, or worse, an incorrect diagnosis by the examiner.

3. For the purposes of this project, a series of physical movements were deliberately applied during the collection of physiological data by a computerized polygraph instrument. These deliberate movements were broken down into lower body movements (LBMs), and facial/jaw movements (FJMs) employed primarily through various manipulations of the mandible through the masseter muscle.

4. Lower Body Movements (LBMs):

A. LBMs commonly observed during a polygraph examination include pressing of toes against the floor, curling the toes, contracting the abdominal muscles, and constricting the anal sphincter.

B. To address this issue, piezo-electric movement sensors were developed to be placed on the seat of the examinee’s chair during the administration of a polygraph examination.

C. This movement sensor proved highly effective in revealing the presence of LBM’s. Polygraph vendors currently manufacture various versions of these sensors which are now used almost universally in the polygraph community.

D. Unfortunately piezo-electric seat cushions are incapable of detecting FJMs.

5. Facial/jaw Movements (FJMs):

A. FJM’s can be an issue during a polygraph examination when the presence of these movement artifacts affects the ability of the examiner to accurately evaluate normal physiological arousal.

B. The author experimented with the application of piezo sensors attached to various portions of the face in an effort to find the location that most reflected the movement of specific facial muscles in response to the presence of these common FJM’s.

C. These efforts determined the area of the face most affected by the above noted physical manipulations to be located on the side of the face, just forward of the temporomandibular joint. This is the area directly below and controlled by the masseter muscle.

D. Once the masseter area was identified and isolated, the investigation was intensified to determine the most efficient way to record subtle movements in this area. A series of approaches were considered including the use of a headband device and the direct application of piezo-electric transducers to the facial area(s) affected. Ultimately, the use of piezo transducers implanted in the ear cups of sealed circumaural studio style headphones was determined to be the most effective approach as well as to provide additional benefits.

E. A set of Radio Shack Optimus Model PRO-155 sealed circumaural headphones was used. A small incision was made in each of the vinyl covered ear cups and a 1.25 inch circular piezo-electric transducer was inserted into the forward portion of each earpiece. The transducers were modified by hand into a slight curve to enable a more efficient fit. The transducers were then wired in a series design to a 6’ shielded cable, which was then connected via a 1/8th inch standard stereo phono plug to the auxiliary jack of a serial Axciton computerized polygraph system (CPS) sensor box. The Axciton sensor box was then connected via a serial cable to a standard Pentium P.C. running Axciton V6.52 polygraph software.
6. Initial Prototype Utilization:

A. A polygraph examinee was attached to an Axciton CPS utilizing standard polygraph sensors
(upper and lower pneumograph components, electrodernal (EDA) fingerplate assemblies, an
occlusive cardio cuff, and lower body movement sensor pad).

B. The MMS prototype was placed on the examinee
and connected to auxiliary channel #5 of the
Axciton sensor box as well as the earphone jack
of a portable audio amplifier. A standard omni-
directional microphone was connected to the
input jack of the amplifier.

C. Three polygraph test charts were collected. During
this data collection, the polygraph examiner
communicated through the microphone, and the
examinee listened to instructions through the
MMS headset. For the first chart, the examinee
was directed to apply specific FJMs at particular
directed points in time. For the second chart, the
examinee was directed to repeat the last word of the directive and then apply the FJM.
For the third chart, the examinee was directed
to repeat the last word of the directive, but to
employ no deliberate movements. The following
directives were provided to the examinee and
marked as noted on each polygraph chart:

- **P1: Squeeze your sphincter.**
- **S2: Bite your tongue on the right side.**
- **S3: Bite your tongue on the left side.**
- **P2: Stomach crunch.**
- **S4: Press your tongue against the roof of
  your mouth.**
- **S5: Roll your tongue backwards against
  the roof of your mouth.**
- **P3: Toes against the floor.**
- **S6A: Tongue against back of the teeth.**
- **S6: Clench your teeth.**

7. Results:

Figure 1 depicts the physiological data
displayed on the first chart. The FJMs applied in
events designated by the “S” identifier (S2 and S3)
are clearly observed in the data acquired by the
MMS, while the LBMs applied in events identified
by the “P” identifier (P1 and P2) are depicted by
the seat cushion movement sensor. Additionally,
there appears to be virtually no electronic “cross
talk” between the MMS data and the seat cushion
at the current sensitivity (gain) settings (MMS data
= 100 units, cushion data = 33 units). Figures 2 and
3 confirm the capability of the MMS to depict each
of the “S” identified FJMs while simultaneously
discriminating these FJMs from the LBMs used.
Figures 4, 5, and 6 depict masseter activity picked up by the MMS as part of the spoken answering process as well as the FJMs employed by the examinee. Both are clearly observable on the charts. However, closer analysis (comparing MMS data to that provided by the seat cushion) reveals masseter activity which occurs as part of the application of a FJM, continues for several seconds longer than activity which occurs as part of the examinee’s spoken answer to a test question.

Figures 7, 8, and 9, depict the effect of the examinee’s answer on the MMS data channel without FJMs. As expected, a small amount of activity is observable due to normal muscle movement during the vocalization process. However, this activity is significantly shorter in duration than the activity seen during FJMs. Figure 9 additionally depicts movement artifacts generated by FJMs.
9. Discussion:

Initial analysis of physiological data collected with the MMS prototype reveals that the MMS does appear to have the capability to discern the presence of FJMs. Additionally, the use of the MMS in tandem with a conventional movement sensor allows the polygraph examiner to discriminate between FJMs and LBMs without crosstalk between the signals.

As reported earlier, some amount of activity is observed in the MMS data set due to normal muscle movement during the vocalization process. However, data collected thus far suggests this activity is significantly shorter in duration than the activity seen during FJMs. If these phenomena remain consistent during continued prototype testing, polygraph test data analysis methods could easily be modified to allow for normal MMS response due to vocalization and still allow for a conclusive opinion to be formed regarding the application of FJMs.

A way to minimize the effects of the examinee’s vocalized answers to test questions would be to incorporate the “silent answer test” during routine polygraph testing. This procedure is already utilized in many cases where significant amounts of artifactual data are present, most predominantly in the respiration channels.

An additional benefit of the MMS is its capability to suppress noises that might otherwise distract the examinee. Polygraph examinations can be affected or even interrupted by sounds emanating from inside or outside the polygraph laboratory (e.g., the sounds of the polygraph printer, uncontrollable noises in settings such as prisons, etc.). The traditional method of the polygraph examiner speaking to the examinee across an open room invites not just the potential distraction due to noises outside the testing laboratory, but to a myriad of conflicting stimuli internal to the testing environment. The high quality noise suppressing headphones used in the MMS greatly reduces the effect of ambient sounds on the polygraph process. Additionally, as noise cancellation technology develops, the effects of outside noise can be virtually eliminated. Lastly, as the only sounds the examinee hears is the polygraph examiner’s voice through the MMS, the examinee is significantly better able to concentrate on the testing process and not on extraneous stimuli.

A final promising aspect of the MMS is in the potential ability to employ computer generated or pre-recorded polygraph test questions versus the live voice of the human examiner. Inflections in the voice of the speaker (examiner) may affect the understanding of and reactions by the receiver (examinee). Reducing the stimulus variability through well-considered automation would allow a reduction in reaction variability, permitting the extraction of more meaningful signal from the physiological data and potentially improving decision accuracy. Additionally, language translation programs currently on the market and under development hold the promise of greatly assisting in the translation/interpretation of polygraph testing across languages and dialects.

10. Summary:

As noted, the initial analysis of the MMS strongly indicates that the MMS has the ability to discern the presence of FJMs during a polygraph examination. Therefore, if confirmed by additional testing, the use of MMS in conjunction with a traditional seat cushion movement sensor may assist the examiner in determining whether physiological reactions are actually artifacts of muscular movement.

Additional testing of the MMS system is necessary to determine the utility of the MMS across subjects. Additionally, the use of alternate forms of piezo-transducers may increase sensitivity over the transducers used in the current prototype. If the MMS continues to perform as well as the initial prototype suggests, examiners may choose to produce their own MMSs, or alternatively, computer polygraph manufacturers may make them more generally available.
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Academy for Scientific Investigative Training
1704 Locust Street, 2nd Floor
Philadelphia, Pennsylvania 19103
Director: Nathan J. Gordon
Ph: 215.732.3349
Fax: 215.545.1773
E-mail: truthdoctor@polygraph-training.com
Webpage: www.polygraph-training.com

Academy of Polygraph Science
Nature Coast Office
5441 Emerald Drive
Ridge Manor, FL 33523
Director: Richard E. Poe
Ph: 727.642.6384 or 727.420.0521
E-mail: acdypolyscience@tampabay.rr.com
Webpage: www.polygraphis.com

American Institute of Polygraph
908 Barton Street
Otsego, Michigan 49078-1583
Director: Lynn P. Marcy
Ph: 262.692.2413
Fax: 269.694.4666
Webpage: www.polygraphis.com

American International Institute of Polygraph
1115 Mt. Zion Road, Suite F
Morrow, GA 30260-0686
Director: Charles E. Slupski
Ph: 770.960.1377
Fax: 770.960.1355
E-mail: aiip@polygraph.com
Webpage: www.polygraphschool.com

Arizona School of Polygraph Science
3106 W Thomas Road, Suite 1114
Phoenix, Arizona 85017
Director: Laura Wells de Perry
Ph: 602.272.8123, 800.464.7831
Fax: 602.272.9735
E-mail: laurawellsperry@cox.net
Webpage: www.azpolygraphschool.com

Backster School of Lie Detection
861 Sixth Avenue, Suite 403
San Diego, California 92101-6379
Director: Cleve Backster
Ph: 619.233.6669
Fax: 619.233.3441
E-mail: clevebackster@cs.com
Webpage: www.backster.net

Canadian Police College Polygraph Training School
P.O. Box 8900
Ottawa, Ontario
Canada K1G 3J2
Director: Scott McLeod
Ph: 613.998.0886
E-mail: scott.mcleod@rcmp-grc.gc.ca

Centro de Investigacion Forense Y Control de Confianza S.C.
Rodriguez Saro #523, Int. 501-A Col. Del Valle
Del. Benito Juarez
Mexico, DF. C.P. 03100
Director: Jaime Raul Duran Valle
Ph: 011.52.55.2455.4624

Centro Mexicano de Analisis Poligrafico y Psicologico, S.C.
Arqueologos #53
Col. El Retono, C.P. 09440
Mexico DF
Director: Maria Fernanda Gadea Lucio
Ph: 011.52.55.5418.5464

Gazit International Polygraph School
29 Hamered, Industry Building
P.O.Box 50474
Tel Aviv 61500 Israel
Director: Mordechai (Mordi) Gazit – 972.3.575.2488
E-mail: mordi@gazit-poly.co.il
Webpage: www.polygraph-school.com

Horowitz-Ginton Credibility Assessment Academy
11 Ben-Gurion, Vita Towers
Bnei-Brak 51260 Israel
Director: Dr. Avital Ginton
Ph: 972.3.616.1111
E-mail: ginton@zahav.net.il

International Polygraph Studies Center
Colima No. 385-2
Colonia Roma Norte
06700 Mexico D. F. Mexico
Director: Raymond Nelson – 303.587.0599
E-mail: international@poligrafia.com.mx

International Academy of Polygraph
1835 South Perimeter Road, Suite 125
Fort Lauderdale, Florida 33309-3066
Director: Scott A. Walters
Ph: 954.771.6900
Fax: 954.776.7687
E-mail: dci@deception.com

Israeli Government Polygraph School
P.O. Box 17193
Tel-Aviv 61171 Israel
Director: Eyal Peled
E-mail: igpolyschool@012.net.il

Kentucky Institute of Polygraph Studies
EKU Funderburk Building
521 Lancaster Avenue
Richmond, KY 40475
Director: Pam Shaw
Ph: 859.622.5944
E-mail: pam.shaw@ky.gov
Latin American Polygraph Institute
Transversal 17 No. 122-73
Bogota - Colombia
Director: Sidney Wise Arias
Ph: 57.1.4829421
Fax: 57.1.2148334
E-mail: swarias@bellsouth.net

Marston Polygraph Academy
PO Box 456
Winterhaven CA 92823
Director: Thomas M. Kelly
Ph: 877.627.2223 or 909.888.2988
Fax: 909.383.1025
tkelly@marstonpolygraphacademy.com
Webpage: www.marstonpolygraphacademy.com

Maryland Institute of Criminal Justice
8424 Veterans Highway, Suite 3
Millersville, Maryland 21108-0458
Director: Billy H. Thompson
Ph: 410.987.6665 or 800.493.8181
Fax: 410.987.4808
E-mail: MDMICJ@aol.com
Webpage: www.micj.com

Mexico Polygraph Studies Unit
Calle Cuauhtemoc # 168
Colonia Tizapan de San Angel
Mexico D.F. 01059
Director: Luz Del Carmen Diaz
Ph: 011.52.55.5616.6273
E-mail: ldgalindo@entermas.net

MINDEF Centre for Credibility Assessment
Block 13, Mandai Camp 2
Mandai Road
Singapore
Director: V. Cholan – (65) 67684147
E-mail: cholan@starnet.gov.sg

National Academy of Training and Investigations in Polygraph Analysis
Reforma #364, Colonia Juarez
Delegacion Cuauhtemoc
Mexico, D.F. CP 0660
Director: Jesus Sandoval Escalante
Ph: 011.52.5.552.410313

Veridicus International Polygraph Academy
Domingo Gonzales #35 Bis, Col. San Antonio Culhuacan
Del. Iztapalapa
Mexico DF, C.P. 09800
Director: Yasmin Rios
Ph: (01152) 15591033522
E-mail: sbraddock@troy.edu

Internal Center for Credibility Assessment
7540 Pickens Avenue
Fort Jackson, SC 29207
Director: William F. Norris
Ph: 803.751.9100
Fax: 803.751.9125 or 37
Registrar e-mail: gatlins@daca.mil
Webpage: www.daca.mil
Federal, State, and Local Law Enforcement only

New England Polygraph Institute
P.O. Box 825
Center Harbor, NH 03226
Director: David J. Crawford
Ph: 603.253.8002
E-mail: kaccd@worldpath.net

Northeast Counterdrug Training Center Polygraph Program
c/o Dept. of Military & Veteran’s Affairs
Building 8-64 Fort Indiantown Gap
Annville, PA 17003-5002
Director: Elmer Criswell
Ph: 717.861.9432
E-mail: lietestec@aol.com
Municipal and State Agencies only

Orange County Polygraph Institute
27281 Las Ramblas, Suite 140
Mission Viejo CA 92691
Director: Len Salcedo – 949.916.0111
E-mail: lsalcedo@ocpica.com
Webpage: www.ocpica.com

Texas Department of Public Safety
Law Enforcement Polygraph School
P.O. Box 4087
Austin, Texas 78773-0001
Director: Walt Goodson
Ph: 512.997.4093
Fax: 512.424.5717
E-mail: walt.goodson@txdps.state.tx.us
Local, State, and Federal agencies only

Troy University Polygraph Center
1117 Perimeter Center West, Suite N101
Atlanta, GA 30338
Director: Samuel L. Braddock
Ph: 770.730.0033 or 1.866.426.1068
Fax: 770.730.0596
E-mail: sbraddock@troy.edu

Virginia School of Polygraph
7885 Coppermine Drive
Manassas, Virginia 20109
Director: Darryl Debow
Ph: 703.396.7657
Fax: 703.396.7660
E-mail: Polygraph1@verizon.net
Webpage: www.virginiaschoolofpolygraph.com