#### Continued Discussion on

Can We Agree on Terminology Beyond Handwriting?

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At this point in time, there seems to be a large variation in the manner document examiner express their conclusions. It has been many years since the first heated and spirited debates started on the terminology to be used in reports by document examiners. This evolved into the ASTM1 standard and SWGDOC<sup>2</sup> standards continuing the debates and evolution of the terminology. The terminology as it relates to certainty can also be seen in expressing opinions and reporting conclusions in proficiency testing. While there are of course drawbacks at times, the use of standards to explain conclusions is generally regarded in the field as a helpful guideline. In the ASTM and SWGDOC standards number 3.5, it is said that the terminology can be applied to other areas of document examination not just handwriting examinations. The questions for today are; "Should we do that?", Do we do that?", and "How close are we to being on the same page in practical cases and applications?" This paper will be an interactive discussion-based presentation with made up case examples, but comparable to real cases and findings that are commonly seen in document examination. The point of the presentation is NOT to say that someone's opinion got more votes than another, but instead to evaluate the similarities and differences in expressing opinions in document examination cases. These case examples will include the evaluation/identification photocopier damage, the use of multiple ink formulations to create an entry, entries, or an entire document, the evaluation of impression evidence, and the evaluation of other similar examinations.

The feedback and discussion of the examples discussed in this paper can provide guidance if the standards can be used in some or all the areas of document examination and secondly, if there is a productive path forward to begin to arrive at some parameters for the implementation and use of possible future standards.

Let's begin with the four ESDA case examples below for discussion. Example A is from an actual case with redacted information. Example B – E are made up cases based on the same scenario, although the way the documents were written are completely different in order to discuss a range of possibilities and the conclusions that can be made. In the scenario for Example A, a large group of documents were produced in discovery in order to prove that the client should have already received the correspondence and payment authorizations. The client's position was that they never received the questioned documents. Our task was to determine whether the documents were created on their purported dates of creation. For case Examples B – E, the hypothetical patient, Robert Martinez, has gone to see his doctor on three separate visits. Shortly after the third visit, the patient dies of cardiac arrest and the family sues the doctor for malpractice. A document examiner is retained to determine if the patient chart was altered or contains additions. The patient file is subpoenaed, and the document examiner examiner the patient chart via the naked eye, microscope, and infrared equipment (a VSC6000 in this case).

**ESDA Case Example A:** 10<sup>th</sup> April 2017 RE – Expenses Dear Thankyou for sending me the receipts and invoices for the expenses for March 2017. As these expenses were made on behalf of I hereby authorize you to deduct £2071.92 being held by on behalf of Yours Sincerely

RE – Expenses

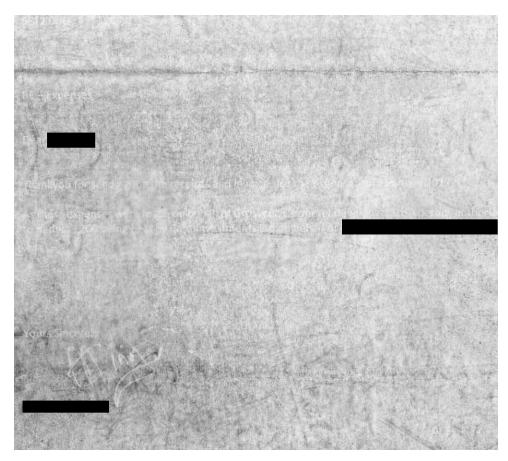
Dear.

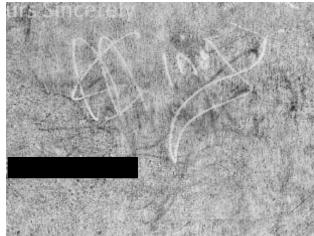
Thankyou for sending me the receipts and invoices for the expenses for June 2017.

As these expenses were made on behalf of I hereby authorize you to deduct £5914.29 being held by on behalf of

10<sup>th</sup> July 2017

Yours Sincerely





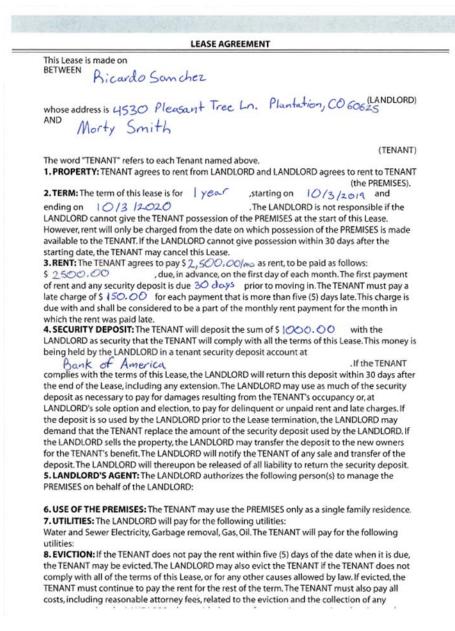
As ind

s Sincereiy

Above are letters RE: Expenses dated 4/10/2017 and 11/6/2017 and below that is an ESDA of a letter RE: Expenses dated 3/6/2017 containing impressions of the two signatures from the letters dated 4/10/2017 and 3/6/2017. Below the full images of each document described are enlargements of each to show that the impressed signatures are identical. In the above case, 96 documents were submitted to our lab for examination and 13 of those documents were processed on the ESDA. Almost all the ESDA films contained impressed signatures in the same area from the other documents within our possession.

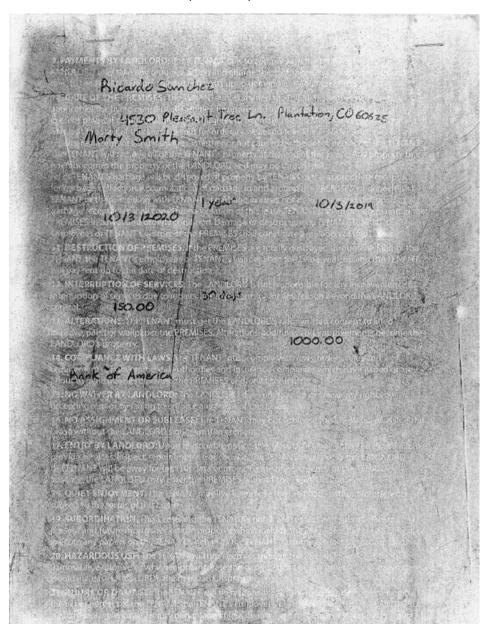
- 1. The questioned documents were (to a certain degree of certainty: highly probable, probable, indications, probably did not, or highly probable did not) signed and created on or about its purported date or at a later time than the date on the document
- 2. The questioned documents were (to a certain degree of certainty: highly probable, probable, indications, probably did not, or highly probable did not) signed in a stack and created at the same time
- 3. No conclusion can be drawn as to the timing of the signatures on the documents

### **ESDA Case Example B:**



Above is page 1 of a 3-page lease agreement which a document examiner has been retained to determine if the document contains any additions or alterations. After the document examiner has done an ESDA on the three pages, the examiner does not identify impressions into page 1, but the examiner identifies impressions of everything written on page 1 into the 2<sup>nd</sup> and 3<sup>rd</sup> pages except for the questioned entries, the rent and amount due in advance.

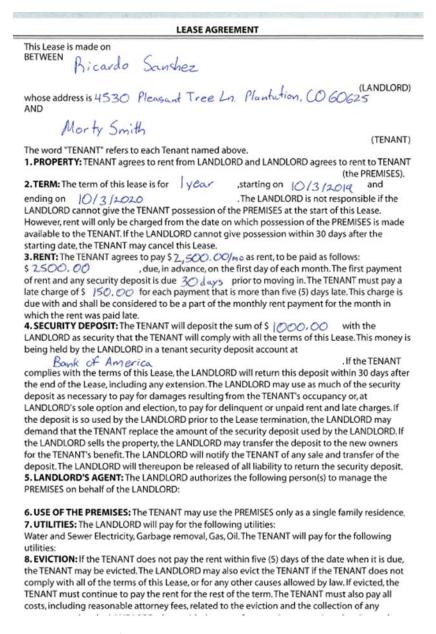
Below is ESDA film with the captured impressions.



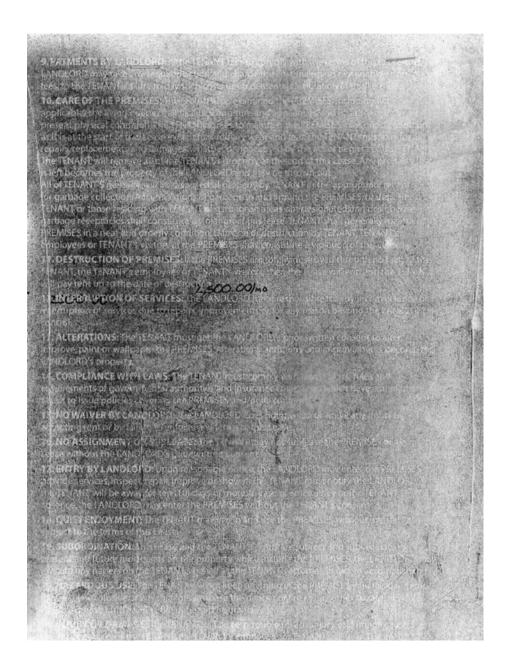
- 4. The questioned entries were written at a different time than the remainder of the text
- 5. The questioned entries were written after the text was completed
- 6. No conclusion can be drawn as to the timing of any of the entries
- 7. The questioned entries were likely the first entries written as they were likely written before the pages were assembled.

In order to create the above example, our lab filled out the lease agreement excluding the rent and amount due in advance portion of the document while the pages were in a stack, page 1 on top of page 2 and page 2 on top of page 3. Page 1 was then laid on the table by itself to fill in the rent and amount due in advance portion of the document.

# **ESDA Case Example C:**



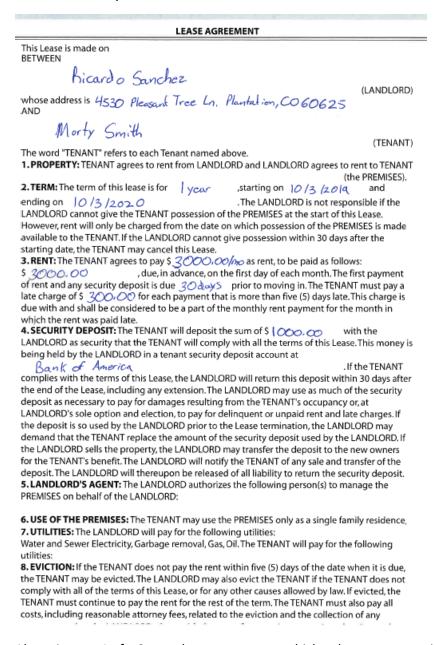
Above is page 1 of a 3-page lease agreement which a document examiner has been retained to determine if the document contains any additions or alterations. After the document examiner has done an ESDA on the three pages, the examiner does not identify impressions into page 1, but the examiner identifies impressions of only the questioned entries, the rent and amount due in advance, from page 1 into the 2<sup>nd</sup> and 3<sup>rd</sup> pages. Below is ESDA film with the captured impressions.



- 1. The questioned entries were written at a different time than the remainder of the text
- 2. The questioned entries were written after the text was completed, because it was likely written once the pages were assembled.
- 3. No conclusion can be drawn as to the timing of any of the entries
- 4. The questioned entries were likely the first entries written

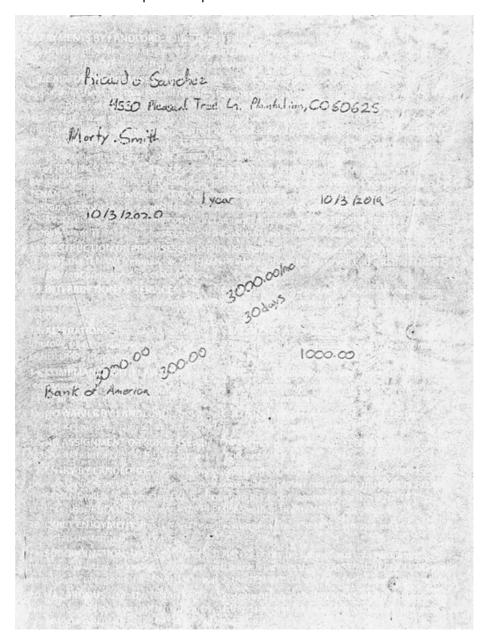
In order to create the above example, our lab filled out the lease agreement with the rent and amount due in advance portion of the document while the pages were in a stack, page 1 on top of page 2 and page 2 on top of page 3. Page 1 was then laid on the table by itself to fill in the remaining portions of the document.

# **ESDA Case Example D:**



Above is page 1 of a 3-page lease agreement which a document examiner has been retained to determine if the document contains any additions or alterations. After the document examiner has done an ESDA on the three pages, the examiner does not identify impressions into page 1, but the examiner identifies impressions of all the writing from page 1 into the 2nd and 3rd pages. The impressions of the

questioned entries are out of alignment with the other impressions identified on the ESDA film. Below is ESDA film with the captured impressions.



- 1. The questioned entries were written at a different time than the remainder of the text based on the alignment
- 2. The questioned entries were written after the text was completed
- 3. No conclusion can be drawn as to the timing of any of the entries simply based on the orientation of the pages at the time of writing and the resulting impressions.
- 4. The questioned entries were likely the first entries written

In order to create the above example, our lab filled out the lease agreement excluding the rent portion of the document while the pages were in a stack, page 1 on top of page 2 and page 2 on top of page 3. Page 1 was then stacked on top of page 2 and 3 out of alignment to fill in the rent portion of the document.

# **ESDA Example E:**

3/5/2018 Pt routine dieckup
Slight devoted BP

7/15/2018 Pt complains of mild
doest pain

2/20/2019 Pt slates his
medications are helping
his dest pain

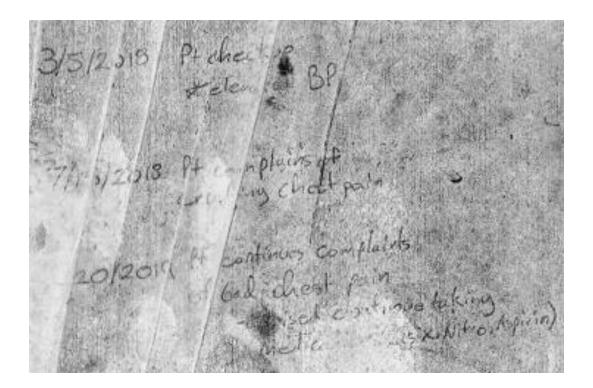
Patient's Medication List

- Nitroglycerin

- aspirin

- Lasix

Above are 2 pages from a patient's file which a document examiner has been retained to determine if the questioned document on the left contains any additions or alterations. After the document examiner has done an ESDA on the known document on the right, the examiner identifies similar impressions to the entries from the questioned document (but not the questioned document). The impressions contain the same dates and similar information as the questioned document entries. Below is the ESDA film with the captured impressions.



What conclusions can the document examiner come to and what can be said about the questioned entry?

- 1. No conclusion can be drawn as to the timing of any of the entries or source without the patient's name impressed along with the similar entries
- 2. The page containing the three questioned entries in the chart now is not the original recordings for this patient
- 3. The questioned page with the three entries has been rewritten and replaced
- 4. The questioned three entries were rewritten on or after the date of the last entry on the page
- 5. The significance of the difference in the language between the missing page which was likely the original portion and the new document shows significant changes in shifting the blame from the doctor to the patient and is a fabricated document

## Lab Creation:

In order to create the above example, our lab wrote a fake patient chart on top of example known document. Then, a questioned document was then written by itself on a table to contain similar information and same dates as the previous patient chart.

Below is one handwriting case example for discussion.



Above is the questioned signature of Richard Sanchez, the document examiner has been retained to determine whether the questioned document was signed by Richard Sanchez. The document examiner is only given photocopies of the questioned document and photocopied verifiable known exemplars to do the comparison. After the handwriting examination, the document examiner determines that it is probable that the questioned document was signed by Richard Sanchez. Opposing counsel hires another document examiner to review the case on their behalf, the opposing counsel's document examiner determines the questioned signature to be a simulated forgery because the first letter of the questioned signature is in a different ballpoint ink from the rest of the signature.

What conclusions can the document examiner come to and what can be said about the questioned signature?

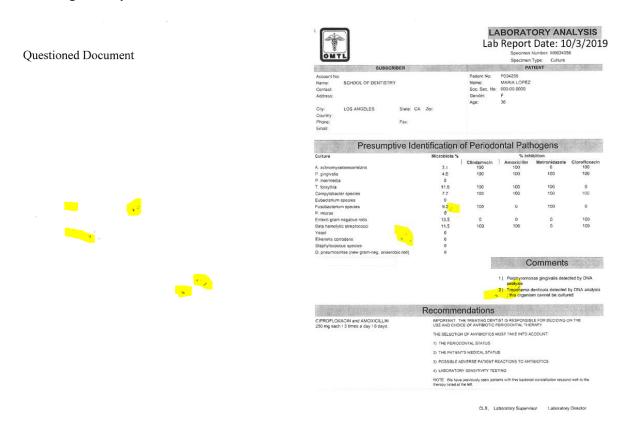
- 1. The questioned signature is (to a certain degree of certainty: highly probable, probable, indications, probably did not, or highly probable did not) forgery because the first letter of the signature is in a different ink.
- 2. No conclusion can be drawn.
- 3. The difference in ink from the first letter of the questioned document can be explained by the possibility that the pen was running out of ink or other similar possibility, and the difference of ink should not bear any weight towards the handwriting examination conclusion.

## Lab Creation:

In order to create the above example, the first letter was signed in a different blue ballpoint pen than the rest of the signature.

Below is one printer damage case example for discussion.

# **Printer Damage Example A:**



Above are a questioned and known document which a document examiner has been retained to determine if the questioned document contains similarities to the known document. After the document examiner has done a visual examination, the examiner identifies identical printer damage marks in both documents.

- 4. The questioned document was created on the same machine as the known document.
- 5. The questioned document may have been created on the same machine as the known document.
- 6. No conclusion can be drawn as to the source as the limited damage marks are transient and without a large number of samples, an reliable association cannot be made.
- 7. The questioned document (or previous copy thereof) may have been created on the same machine as the known document (or previous copy thereof).
- 8. The questioned document (or previous copy thereof) was created on the same machine as the known document (or previous copy thereof) and the two may have been created on the same machine.

In order to create the above example, fake printer damage marks were added to a blank piece of paper by making small indistinct dots with a pen. This printer damage was then photocopied onto the stipulated questioned and known documents.

- 1. ASTM E1658-08 Standard Terminology for Expressing Conclusions of Forensic Document Examiners
- 2. SWGDOC Standard Terminology for Expressing Conclusions of Forensic Document Examiners