

CSI: Doane

April 1, 2010

In past there has been little time while at Doane to solve the murder. I tried to provide more information this year to give you a richer story line. What was one page of information in years past is 10 pages this year, so students would have even less time. To help solve this I am giving you the main story and relevant police reports early. Students will receive clues in each workshop as well as take the information learn in the workshop and apply that knowledge to the mystery. Even still, it wise to study the mystery as a group and think about a game plan before arriving at Doane.

Below you will find a general overview of the crime and a quick idea of who is involved (pages1-3). The following pages contain the relevant info gathered by the police.

***Note:** The chemicals uses in this story are basically as described. Do not make any assumption about the chemicals other than what is stated in the story. That is, you can replace any chemical name with the name "Chemical X" and still have the story work.*

General Overview:

Two people, Dr. Dee Anay and Dr. Paige Turner, were found dead in the Lied Science building room 109. The bodies were discovered Monday, March 15th at 6:30am by a custodial worker who cleaned more than half the room before discovering the bodies. (They had fallen on the backside of a work island and could not be seen until someone actually walked around the island.) The custodial worker was arrested for tampering with evidence as it appears to the police that she clearly cleaned some of the blood. She is currently in jail waiting for the judge to set bail.

There is no sign that Dr. Dee Anay struggled and no obvious evidence that she was injured. We are awaiting the coroner's report. Dr. Paige Turner has suffered a blow to the left temple. It does not look like she had a chance to struggle. Again we are awaiting the coroner's report. Dr. Paige Turner's body was discovered slumped over Dr. Dee Anay's body.

Lied room 109 is a research lab used primarily by Dr. Dee Anay and is referred to as her lab. As some of the research equipment in the building can only be found in that room, it is used periodically by all professors and many students.

On the second Friday of every month, Dr. Dee Anay can be found mixing up the chemicals she uses in her research. When the primary chemical she uses for research, β -aminopropionitrile, is injected directly into the brain of rats, it shuts down a very small portion of the brain temporarily. If injected in high doses, it can permanently stop brain functioning. Once created, it is stable and

safe to handle. Several chemicals used to create the chemical, however, are extremely volatile and very deadly. They are so deadly that Dr. Dee Anay only works with them after hours on Friday night when she will not be disturbed. She has repeatedly stated that it takes all of her concentration to create the mixture properly and safely.

Her lab book indicates she started work March 12th at 6:00pm after returning from dinner. She does not mention Dr. Paige Turner in her lab book. A review of her lab book indicates that she typically lists all members working with her on a project. Both individuals were found in lab coats, though only Dr. Dee Anay had safety goggles and latex gloves on.

The parking lot in front of the Lied building is covered by newly installed surveillance cameras. The cameras don't actually cover the front doors of the Lied Science building. If one walks across the grass off camera then gets on the sidewalk before coming into view, it would be possible to make it look as if they came from the Lied building. The back parking lot is not covered by the cameras. The building can be accessed by all professors using their keys. Newly installed electronic doors in the front can now also be accessed by key-pass cards. All professors have been given the new key-pass cards. So a professor can enter the front of the building using their key-pass card or their key. The key-pass system only records people entering the building if they use the key-pass card. No key or card is required to exit the building.

Dr. Dee Anay was seen leaving the college at 5:00pm Friday and returning shortly before 6:00pm (captured on video camera). She was not reported missing because she lives alone.

Dr. Paige Turner was seen arriving at the college at 8:00am on Friday. She did not go home for dinner and was not seen or heard from after 5:00pm Friday. She was declared missing by her husband Saturday morning. He often goes to sleep before she gets home on the nights she works late. Saturday afternoon campus security let him into her office (room 135) and in her lab (room 143), but he did not find her. Her purse and keys were found in her office. Her car was still in the lot where she left it as was Dr. Dee Anay's car.

List of suspects and/or individuals without alibis

Dr. Al Fresco – Male. Appears to have had a motive. Dr. Anna Graham claims that Dr. Al Fresco was being blackmailed by Dr. Dee Anay. Dr. Al Fresco had a cocaine problem. Dr. Dee Anay supposedly found out that Dr. Al Fresco was stealing cocaine from the college's cocaine safe. (Staff members at the college are doing research on cocaine and have a substantial quantity in a locked safe.) Dr. Al Fresco denies that any blackmail is going on. Bank records indicate that Dr. Al Fresco has been putting \$1,000 less into his account every month for the last six months. There are no corresponding deposits in Dr. Dee Anay's account.

Dr. S. Snape – He has no alibi other than that he was at home alone watching movies. All confirmed that he generally hates his colleagues and wishes they were all fired.

Dr. Anna Graham - She is in love with Dr. Al Fresco. Claims they have a very close relationship. (When asked, Dr. Al Fresco said they have a casual but intimate relationship and both know there is nothing to their relationship. He claims they were both dating other people.) She claims that Dr. Dee Anay is blackmailing Dr. Al Fresco. She does not know for how much money but thinks it's about \$1,000. When asked why, she said “She (Dr. Dee Anay) gave him the combination to the cocaine safe because she knew he had a cocaine addiction from the past. But he (Dr. Al Fresco) is over that and has been clean for 20 years. That is all behind him. Now she (Dr. Dee Anay) claims he is stealing the cocaine. I think that witch (Dr. Dee Anay) is stealing it.” A check of the cocaine log book indicates that the record of how much cocaine was checked out and by whom is so poor that it is impossible to determine how much cocaine, if any, is missing.

Dr. Burly Mann – Everybody likes him and he likes everybody. He is only a suspect because he originally denied being in the building on the night of the murders. It was later found that he was in the building just two doors away from the murders.

The custodian - Found the bodies of Dr. Dee Anay and Dr. Paige Turner just after 6:30am Monday. That morning, like all mornings, the custodian unlocked the labs and classrooms and removed the trash. At approximately 6:10am, she removed the trash from room 109, but did not see the bodies. That trash was removed by the city trash truck before police realized the trash had been removed. The police assert that she also cleaned up blood on the counter.

Relevant police notes on Dr. Dee Anay:

Found dead in room 109 Lied. She was discovered by a custodian Monday at 6:30am.

She is 68 years old, is semi-retired and is teaching only one class a semester, but also worked with research students. She has worked for the college for 32 years.

Her area of study is neural biology.

Her research emphasis is on cognitive pathways in the brain. Specifically, she studies rats and how their brains respond when portions of their brain are shut off.

She keeps a meticulous lab notebook, including who is working with her on any given day. Of note is that Dr. Paige Turner is not mentioned in the notebook even though Dr. Turner was found dead on top of Dr. Anay.

Every second Friday of the month she mixes up the chemicals she'll need for the next 30 days.

The neural inhibitor she uses, β -aminopropionitrile, turns off parts of the brain and is stable once it is made. In small doses, it inhibits brain function at the site of injection. In large quantities, it can cause brain death. Once made, it is not hazardous and only functions if injected into brain tissue. It cannot be absorbed through the skin, breathed in, or injected into the body (other than the brain) and have any effect. The chemicals used to make the neural inhibitor, however, are extremely dangerous. She mixed sodium cyanide with ethanolamine in the presence of an acid catalyst. In a side reaction, the acid reacts with the sodium cyanide to produce prussic acid gas. Because prussic acid is so volatile, it can actually evaporate out of a body very fast. Even when exposed to high doses, prussic acid cannot be detected in an animal after 3 hours or so. The making of the neural inhibitor requires a lot of concentration. Thus, Dr. Dee Anay does not mix the chemicals until the students and most of the staff have gone home Friday night.

Dr. Dee Anay was found with all the proper safety equipment on, including lab coat, goggles, and gloves. She also appeared to have been working under the fume hood in a safe manner. Her lab book indicates that she was going to make β -aminopropionitrile that night. Under the fume hood, all the chemicals needed for her work can be found. The bottle that should have contained prussic acid was open and empty. It is impossible to determine if she had made the prussic acid before she died. All the equipment, beakers, etc., under the hood look normal. There is no broken glass or overturned bottles. She died before making β -aminopropionitrile, the goal of her work for the night.

The start time in the logbook was noted as 6:00pm Friday.

She was not reported as missing as she lives alone.

Her car was still in the parking lot Monday.

Relevant police notes on Dr. Paige Turner:

She was found dead with Dr. Dee Anay in 109 Lead. She was half draped over Dr. Dee Anay. Her research is genetics. She has worked at Doane for 15 years.

Notes in Dr. Dee Anay's lab book indicate that Dr. Paige Turner has helped out from time to time, but she was not listed as helping out on the night in question.

She was not wearing safety equipment other than her lab coat, which she habitually wore while at work.

She was reported missing by her husband Saturday morning. He stated that he normally goes to bed before she gets home on these Fridays. He was let into her office, Lied 135, and into her lab, room 143, around 10:00 Saturday morning by a Doane safety officer. Her car was still in the parking lot, and her purse was still in her office. The husband did not find her.

Relevant police notes on Dr. Al Fresco:

Originally denied being in the building on the evening of the murders. It was later found that he used his key-pass card to enter the building at 6:45pm. On checking the security cameras, he can be seen parking his car in the parking lot at the front of the building and walking into the building at the time noted by the key-pass card. Upon being questioned again, he admitted to entering the building, but claims he was just passing through and walked out the back. Hesitant to talk at first, he then also admitted to visiting Dr. Anna Graham for dinner and drinks. Her house is one block out the back of the building. When questioned as to why he did not drive to her house, he claimed that he didn't want people to see his car parked in her driveway as he "didn't need the hassle with rumors." Claims he was at her house by 7:00pm on Friday and that he left by 12:00 midnight.

Security cameras show him getting into his car at 12:35am Saturday. Though the camera cannot see the front door of the building, it appears that he came from that direction. He did not use a key-pass card to enter the back of the building on his way home. (The door on the back of the building can be entered using a normal key.)

Says that his relationship with Dr. Anna Graham is casual but intimate. That they have an open relationship. Rejects the notion that he is "dating" Dr. Anna Graham.

When asked if he was being blackmailed by Dr. Dee Anay regarding his past drug problems, he became agitated and claimed "I've been clean for 20 years. That is all behind me. I don't know where you would get such an idea." A check of his bank statements indicates that he is putting in \$1,000 less every month into his account. He has been doing this for the last six months. He claims he is not putting the money into his account, but rather is keeping the cash in his pocket just for spending.

Dr. Al Fresco claims that he did not see Dr. Dee Anay or Dr. Paige Turner that night. And he is certain that the lab doors were shut. (Note: campus security was asked about the state of the doors, open or closed, and they had no recollection. "Honestly, we close so many doors on Friday nights, I would have no idea if that lab was open or not. I do know that by the end of our first round [finished at 10:00pm] every lab was closed and locked unless someone was inside working.")

Relevant police notes on Dr. S. Snape:

Dr. S. Snape is generally mad about life and hates most of the faculty.

He's been at Doane for 15 years.

Routinely claims that he would like to see all the biologists fired.

He has been denied full professor promotion for the last three years. This has been blocked in part by Dr. Paige Turner.

He has no alibi. His wife is out of town, and he claims that he was at home watching movies.

He is not seen on the video cameras and did not use the key-pass card system.

Relevant police notes on Dr. Anna Graham:

Dr. Anna Graham is in love with Dr. Al Fresco and claims that they are dating. She thinks the relationship is getting stronger. "He confides in me" she claimed.

Has been at Doane for 20 years.

Teaches anatomy and physiology as well as histology.

Claims to have invited Dr. Al Fresco to dinner Friday night. They had dinner at 7:00pm, and he did not leave her house until 2:00am Saturday.

She claims to know about Dr. Al Fresco's drug problem. "But it is the fault of Dr. Dee Anay. She gave him the code for the cocaine safe. (Research is being done on cocaine at Doane College. The cocaine is locked up in a safe in the science building.) He has been clean for more than 20 years. Dr. Dee Anay is just using that to blackmail him. He won't tell me how much she is taking from him, but I think it's like \$1,000 each month. I think she steals the cocaine herself and sells it on the side, then blames Dr. Al Fresco. If you ask me, that witch got what she deserved."

In the words of the investigator, "She is spooky mad at Dr. Dee Anay."

Relevant police notes on Dr. Burly Mann:

Is liked by everyone and in his words, “likes everybody.”

He thinks Dr. S. Snape is picked on by the rest of the department, but also notes that Dr. S.

Snape goes out and picks fights whenever he can.

Originally claimed he was not at work Friday night, but the security cameras show his car driving by campus at 8:07pm. He later admits that he has been writing romance novels for 20 years and was trying to make a deadline by Monday morning. His pen name is Linda Howard. This information checked out with his publisher.

Information on his computer indicates that he was actively working from around 8:30pm Friday to 3:15am Saturday.

He heard nothing and thought he was alone in the building. His office, room 116, is almost across the hall from room 109.

Relevant police notes on the custodian:

The custodian found the bodies of Dr. Dee Anay and Dr. Paige Turner just after 6:30am Monday.

That morning, like all mornings, the custodian unlocked the labs and classrooms and removed the trash. At 6:10am or so, she removed the trash from room 109, but did not see the bodies. (That trash was removed by the city trash truck before police realized the trash had been removed.)

She returned to room 109 to specifically clean it up as it “looked as if no one took the time to clean up after their research.” After sweeping most of the floor she discovered the bodies behind the bench.

She claimed she did not touch the bodies or tamper with any evidence. Though it is clear to the police that she did more than what she claims. A luminol test revealed that blood was cleaned off the research bench right where the crime took place.

She is currently being held in the city jail for tampering with evidence. She is not being charged at the moment for the murders.