

Technicon Autoanalyzer II

Andrew Lee Bristol

Introduction

- Theory and Operation of AAll
- Andrew Lee Bristol
- Lab Manager of
- Soil, Water, and Air Testing Lab

Topics of Discussion

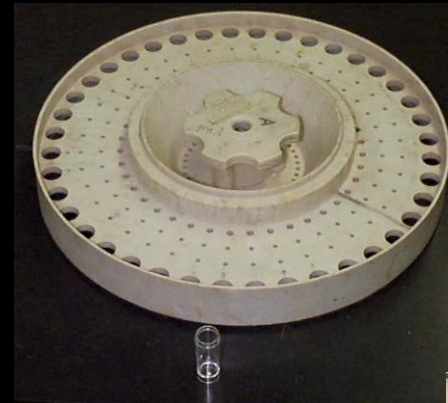
- Components
 - ◆ Sampler
 - ◆ Pump
 - ◆ Modules
 - ◆ Colorimeter
 - ◆ Chart Recorder

Technicon AAll



Sampler

- Timer – Wheel
- Tray
- Cups
- Probe

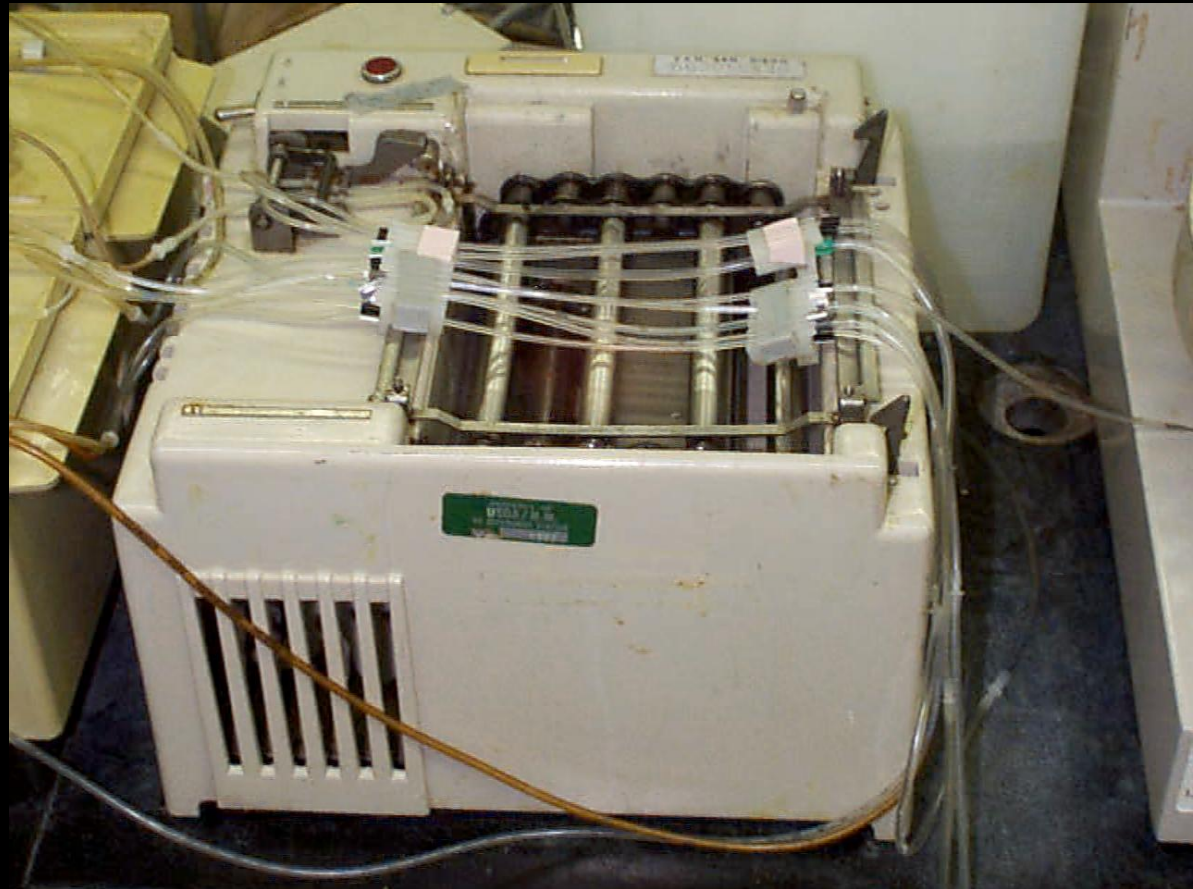


Sampler

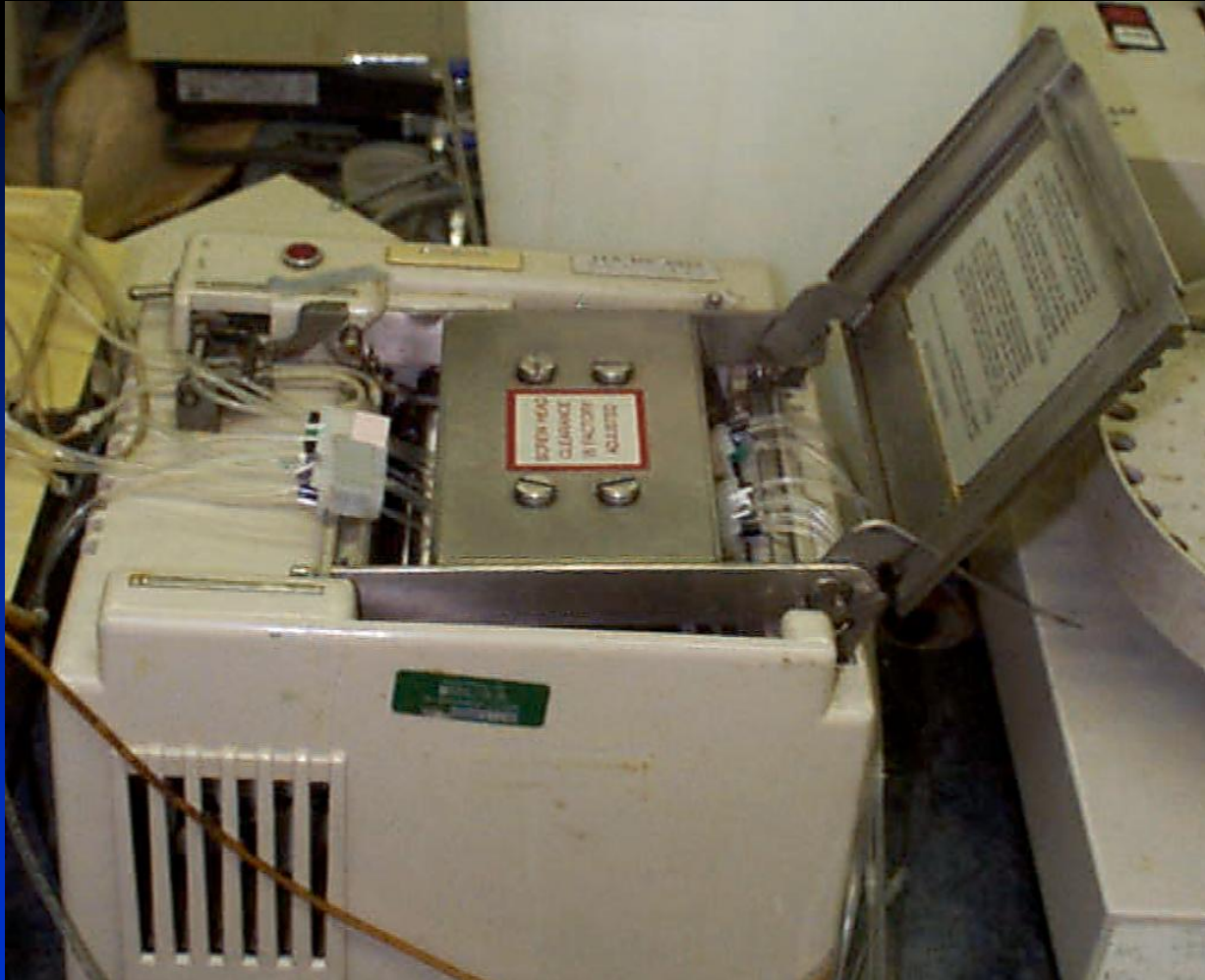


Pump

- Air Bubble Bar
- Rollers
 - ◆ Keep Clean
 - ◆ Oil Pads
- Rails
- Tubing and Keeper Blocks
- Platen



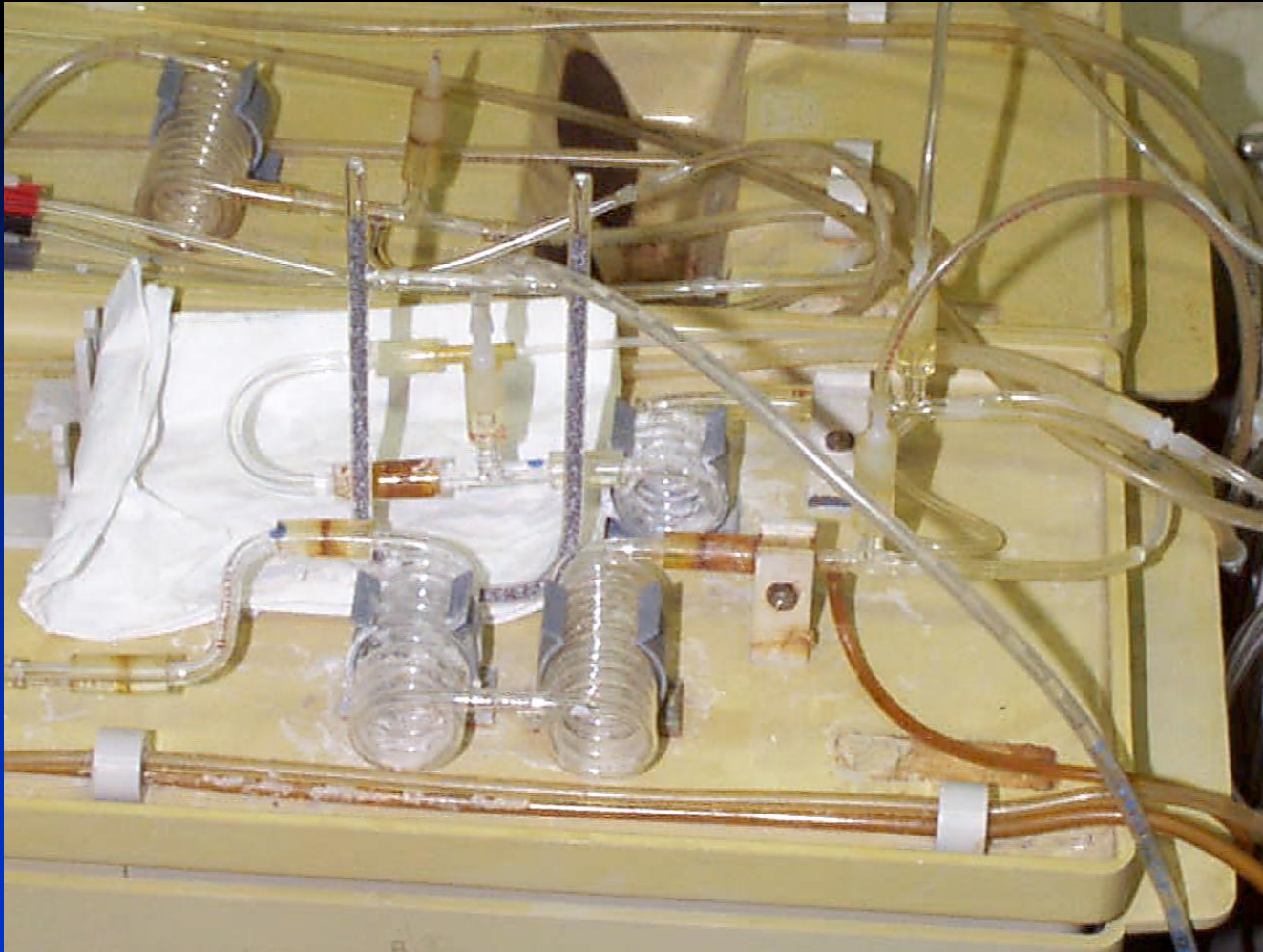
Platen



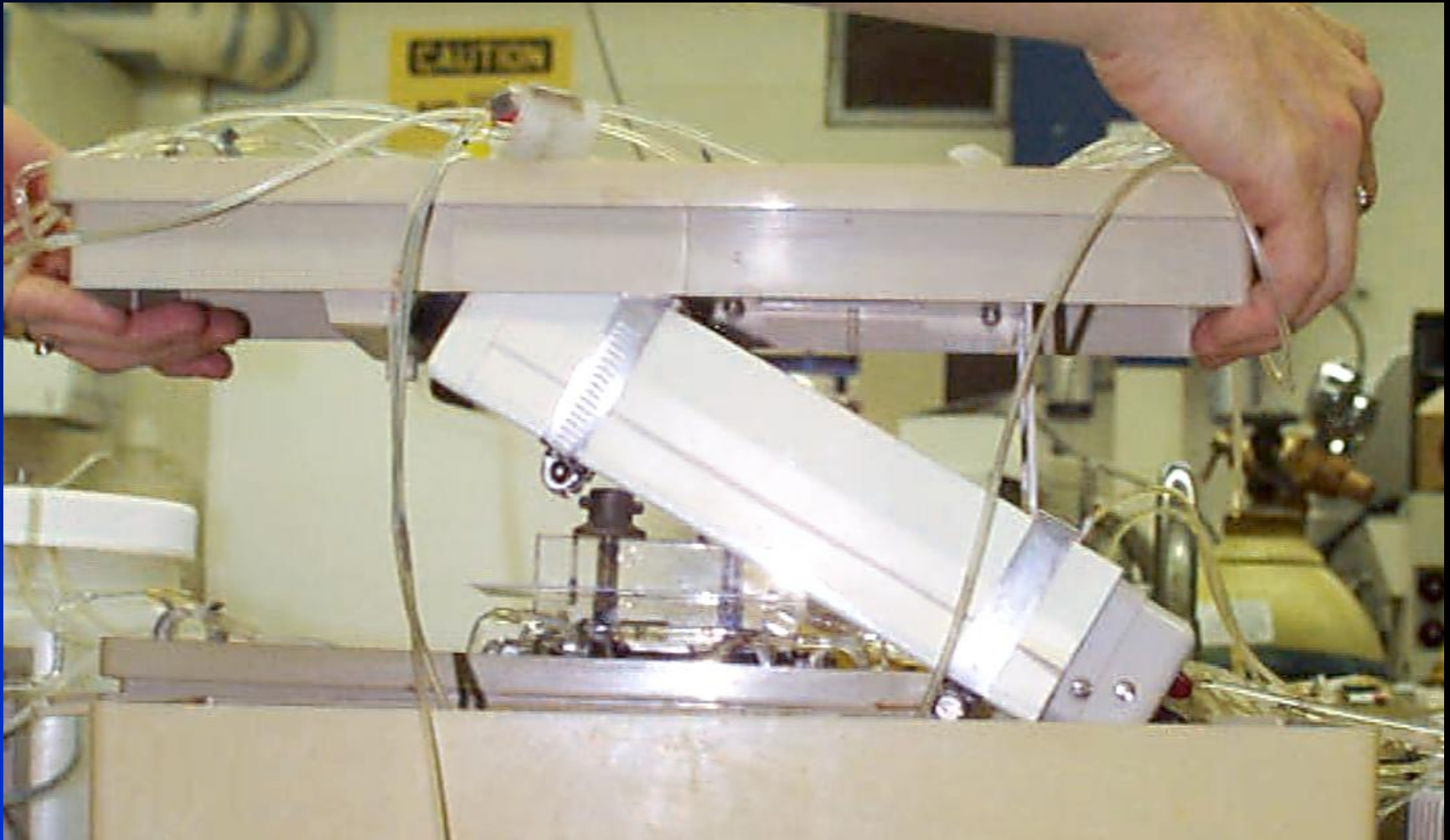
Modules

- Chemistries
 - ◆ Nitrate, Ammonium, TKN, CI
- Nitrate Column
- Coils – Mixing and Time
- Air Injectors
- Membrane – TKN
- Heater – TKN and Ammonium

Module parts -1



Module parts - 2

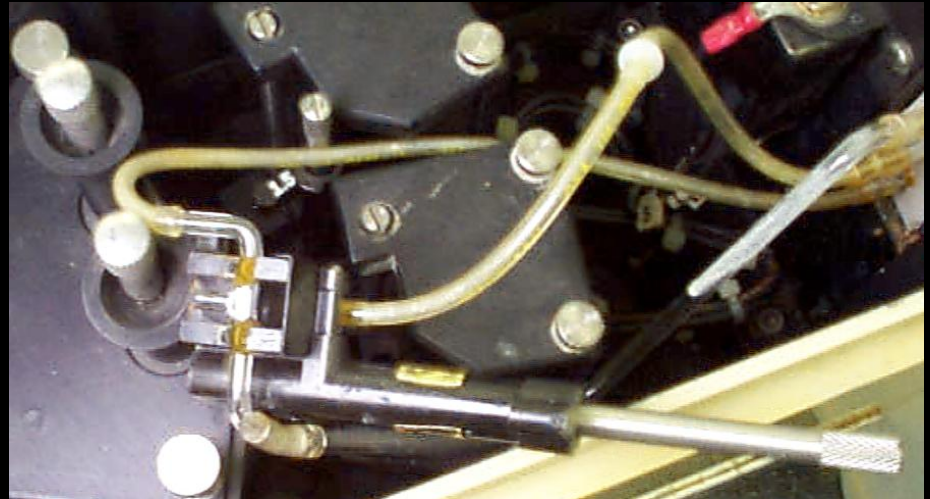


Colorimeter

- Light Path



- Flow thru Cell



Colorimeter

- Filter



- Adjustments

- ◆ Zero
- ◆ Cal
- ◆ On/Off
- ◆ Damp

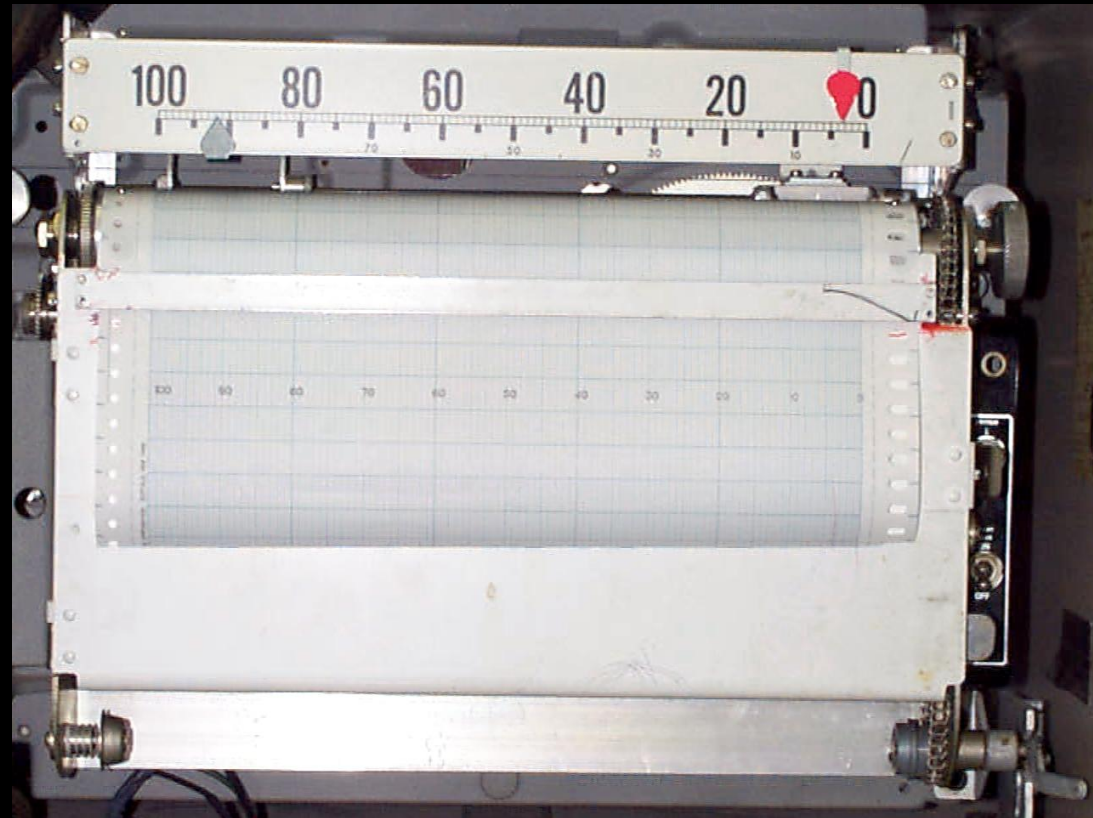


Beer-Lambert Law

- $A = abC$
- A - absorbance
- a – absorptivity
- b – path length
- C - concentration

Chart recorder

- Paper Divisions
- Warm up



More Information

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