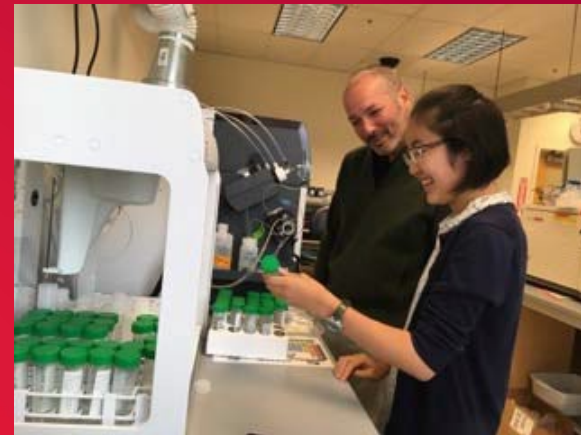




WSU Water Chemistry Facility

John Harrison

Marc Kramer

Instrument Expo, April 7, 2021



Water Chemistry Facility Equipment

Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Ion Chromatograph (IC)



Total Organic Carbon
& Total Nitrogen
(TOC/TN) Analyzer



ICP-MS

Inductively Coupled Plasma-Mass Spectrometer

- For rapid, precise, and near-simultaneous measurement of multiple cations and trace elements in water samples, soil extracts, and tissue extracts



Image Source: ICP-MS Facilities in the USGS Geologic Discipline:
<http://minerals.cr.usgs.gov/icpms/intro.html>

Ion Chromatograph

Ion Chromatograph

- For rapid, precise measurement of multiple anions in water samples, tissue extracts, and soil extracts

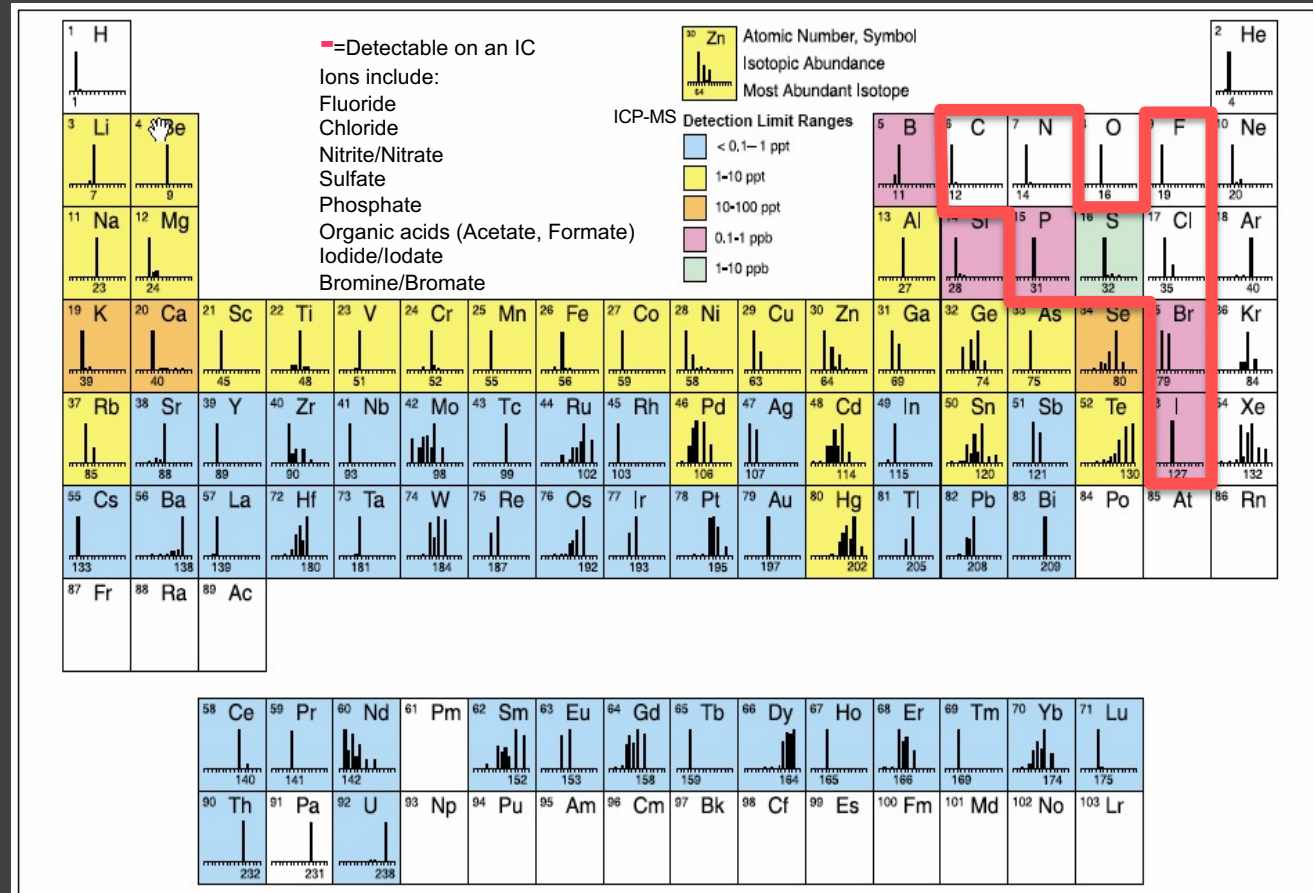
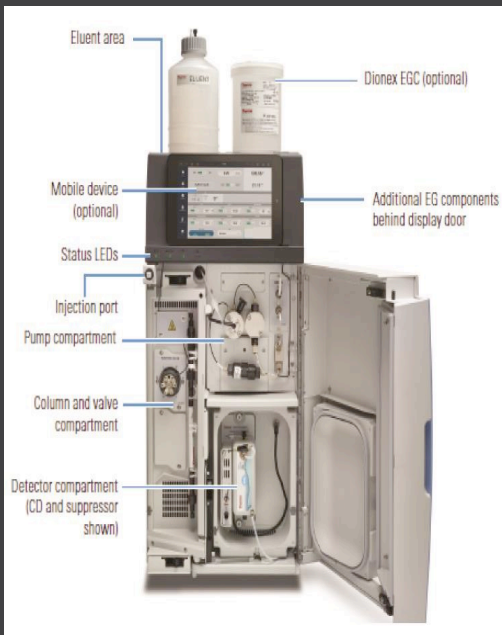


Image Source: ICP-MS Facilities in the USGS Geologic Discipline:
<http://minerals.cr.usgs.gov/icpms/intro.html>

A Few Representative Applications

- Water quality assessment
- Contaminant transport studies
- Soil analysis
- Geochemical studies
- Biogeochemical studies
- Tracer experiments
- Toxicology studies and screens (heavy metals)
- Archeological characterization

For more information and to submit samples:

Facility Website: <https://labs.wsu.edu/icpms/>

Co-directors:

Email: john_harrison@wsu.edu

Email: marc.kramer@wsu.edu

