



Theory to Practice: How Science is Done

# BEHOLD LIVERMORIUM: A QUEST FOR NEW ELEMENTS

2 IIA											13 IIIA
4 9.0122 <b>Be</b> BERYLLIUM											5 10.81 <b>B</b> BORON
12 24.305 <b>Mg</b> MAGNESIUM											13 26.982 <b>Al</b> ALUMINUM
3 IIIB	4 IVB	5 VB	6 VIB	7 VIIB	8	9 VIII B		10	11 IB	12 IIB	
20 40.078 <b>Ca</b> CALCIUM	21 44.956 <b>Sc</b> SCANDIUM	22 47.867 <b>Ti</b> TITANIUM	23 50.942 <b>V</b> VANADIUM	24 51.996 <b>Cr</b> CHROMIUM	25 54.938 <b>Mn</b> MANGANESE	26 55.845 <b>Fe</b> IRON	27 58.933 <b>Co</b> COBALT	28 58.693 <b>Ni</b> NICKEL	29 63.546 <b>Cu</b> COPPER	30 65.38 <b>Zn</b> ZINC	31 69.723 <b>Ga</b> GALLIUM
38 87.62 <b>Sr</b> STRONTIUM	39 88.906 <b>Y</b> YTTORIUM	40 91.224 <b>Zr</b> ZIRCONIUM	41 92.906 <b>Nb</b> NIOBIUM	42 95.95 <b>Mo</b> MOLYBDENUM	43 (98) <b>Tc</b> TECHNETIUM	44 101.07 <b>Ru</b> RUTHENIUM	45 102.91 <b>Rh</b> RHODIUM	46 106.42 <b>Pd</b> PALLADIUM	47 107.87 <b>Ag</b> SILVER	48 112.41 <b>Cd</b> CADMIUM	49 114.82 <b>In</b> INDIUM
56 137.33 <b>Ba</b> BARIUM	57-71 <b>La-Lu</b> Lanthanide	72 178.49 <b>Hf</b> HAFNIUM	73 180.95 <b>Ta</b> TANTALUM	74 183.84 <b>W</b> WOLFRAM	75 186.21 <b>Re</b> RHENIUM	76 190.23 <b>Os</b> OSMIUM	77 192.22 <b>Ir</b> IRIDIUM	78 195.08 <b>Pt</b> PLATINUM	79 196.97 <b>Au</b> GOLD	80 200.59 <b>Hg</b> MERCURY	81 204.38 <b>Tl</b> THALLIUM
88 (226) <b>Ra</b> RADIUM	89-103 <b>Ae-Lr</b> Actinide	104 (267) <b>Rf</b> RUTHERFORDIUM	105 (268) <b>Db</b> DUBNIUM	106 (269) <b>Sg</b> SEABORGIUM	107 (270) <b>Bh</b> BOHRIUM	108 (271) <b>Hs</b> HASSIUM	109 (272) <b>Mt</b> MEITNERIUM	110 (273) <b>Ds</b> DARMSTADTIUM	111 (274) <b>Rg</b> ROSGOLDIUM	112 (275) <b>Cn</b> COGNACIUM	113 (285) <b>Nh</b> NIHONIUM

114  
**F1**  
Flerovium

116  
**Lv**  
Livermorium



**Dawn Shaughnessy, PhD**  
Chemist and Group Leader  
Nuclear & Radiochemistry Group  
NUCLEAR & CHEMICAL SCIENCES DIVISION, LLNL

**Thursday, March 7, 2019**  
**6:00 - 7:15 pm**



Building 2400, Room 2420  
Free and open to the public

Las Positas College  
3000 Campus Hill Drive  
Livermore, CA 94551-7650