

ACS Annual Meeting:

Celebrating D. I. Mendeleev and the Periodic Table***Rudy Luck***Department of Chemistry
Michigan Technological University**Friday, October 25, 2019****DOW, Room 641****Time: 3:00 pm****Abstract:**

The Periodic Table, possibly the world's most important and famous scientific image, is 150 years old. For that reason the United Nations declared that 2019 is the International Year of the Periodic Table. The American Chemical Society's (ACS) local chapter will feature an abbreviated history of the origins and distribution of the elements including allotropes, the periodic table and its significance. Difficulties in the conversion of dinitrogen into ammonia, featuring the reaction between two elements (i.e., nitrogen and hydrogen) will be featured.

ОПЫТЪ СИСТЕМЫ ЭЛЕМЕНТОВЪ	
ОСНОВАНИЕ НА ИХЪ АТОМНОМЪ ВѢСѢ И ХИМИЧЕСКОМЪ СВОЙСТВѢ	
	Ti=50 Zr=90 ?=180 V=51 Nb=94 Ta=182 Cr=52 Mo=96 W=186 Mn=55 Rh=104,4 Pt=197,4 Fe=56 Ru=104,4 Ir=198 Ni=59 Co=59 Pt=106,6 Os=199 H=1 Cu=63,4 Ag=108 Hg=200 Be=9,4 Mg=24 Zn=65,2 Cd=112 B=11 Al=27,4 ?=68 Ur=116 Au=197 C=12 Si=28 ?=70 Sn=118 N=14 P=31 As=75 Sb=122 Bi=210? O=16 S=32 Se=79,2 Te=128? F=19 Cl=35,5 Br=80 I=127 Li=7 Na=23 K=39 Rb=85,4 Cs=133 Tl=204 Ca=40 Sr=87,6 Ba=137 Pb=207 ? = 45 Cr=92 ?Er=66 La=94 ?Yt=60 Di=95 Zn=75,2 Th=118?

This is a representation of the first published image of the Periodic Table in *Principles of Chemistry* by Dmitri Mendeleev

Biography:

Rudy Luck obtained all of his degrees from the University of Toronto and engaged in postdoctoral research at Texas A&M University. As of 1997, he was employed at Michigan Technological University where he is now an Associate Professor of Chemistry. His research interests include inorganic syntheses, catalysis and characterization of single crystals by X-ray diffractometry. This fall 2019 semester he is teaching Inorganic Chemistry I (3 cr h), Inorganic Chemistry Laboratory (2 cr h) and a course on Chemical Safety (1 cr h). He will be teaching courses on group theory (in Inorganic Chemistry II, CH 4320, 3 cr h) and Senior Seminar (2 cr h) during the Spring 2020 semester.

**This talk is part of the ACS Upper Peninsula Local Section
Annual meeting will follow the talk.**