Physics 108 Assignment#4 (due on 4/25/2016)

Reading materials:

Pedrotti 3 rd Edition:	Chapter 8: 8-1 through 8-7
Lecture Notes:	pp. 46 - 57

Homework: (Pedrotti 3rd Edition)

- 1. 8-4
- 2. 8-5
- 3. 8-6
- 4. 8-10
- 5. 8-11
- 6. (Optional for an extra point) Find a research article using Google that describes how Optical Coherent Tomography (OCT) works in medical imaging.
- 7. (Optional for an extra point) Find a research article using Google that describes how Bio-Layer Interferometry (BLI) works in detecting chemical reactions.
- 8. (**Due 5/9/16**) *Landscape Lens*: Perform the Introductory Exercise on Landscape Lens using OSLOEDU software. Show YOUR results by (1) displaying the starting "Surface Data" and "Lens Drawing" for paraxial rays and non-paraxial rays; and (2) displaying your optimized "Surface Data" and "Lens Drawing" for paraxial rays and non-paraxial rays. (You may also try the following condition for start: and "draw off").

SRF	RADIUS	THICKNESS	APERTURE RADIUS	GLASS SPE
OBJ		1.6000e+03	582.352375	AIR *
1	21.807957 V	4.000000	11.666830 s	BK7 C
2	27.77778	12.647480 v	9.997114 s	AIR
AST		155.058604 s	4.341641 AS	AIR *
IMS			67.000000	*