“Out-of-the-Box” professional development workshop

Date & Time: Wednesday, October 25th, 2:30 pm—4:30 pm

Location: Hillside High School, Rm. 200

3727 Fayetteville St., Durham, NC 27707

Workshop Title: “What is in the Food Colors?—DIY Gel Electrophoresis”

This workshop is planned for secondary teachers of Durham Public Schools, by the Office of Science Education and Diversity (OSED) of National Institute of Environmental Health Sciences (NIEHS). Teachers will watch a gel electrophoresis demonstration of food colors and predict the course of travel of each color, based on the molecular weight and structure, and charge of dyes contained in each food color. Every teacher who attends this workshop will receive a kit that contains the essential ingredients for this DIY gel-electrophoresis. Dr. Tom Randall and Ms. Dawn Trembath from the Triangle DIY Biology (Tri DIYBio) will talk to teachers about various resources that teachers might find useful for classroom teaching.

Agenda:

2:30 pm— 3:00 pm Overview of NIEHS by Mr. John Schelp, M.P.A., Special Assistant for Community Engagement & Outreach, OSED, NIEHS.

3:05 pm— 3:35 pm Food color gel electrophoresis demonstration. Teachers predict the course of travel of each color, based on the molecular weight and structure, and charge of dyes contained in each food color.

3:35 pm—3:45 pm Break

3:45 pm—4:15pm “Triangle DIY Biology: What it is and its resources for teachers”, By Tom Randall, Ph.D., & Dawn Trembath of Tri DIYBio; NIEHS science education outreach programs , by Huei-Chen Lao, Ph.D., OSED, NIEHS

4:15 pm—4:30 pm Q&A