

Energizing Summit Class Outline

THE CHEMISTRY OF HAIR AND HAIRCOLOR

John Halal



1. Hair structure:

- a) Cuticle Cortex and Medulla.

2. Natural haircolor:

- a) Melanin.

3. Color:

- a) Additive and Subtractive color.
- b) Energy of Electromagnetic radiation.
- c) Sunlight, artificial light.
- d) Level and Shade.

4. Haircolorants:

- a) Liquid, Cream and Gel haircolorants.
- b) Temporary, Demi-Permanent and Permanent haircolors.
- c) Oxidative and non-oxidative dyes.
- d) Primary Intermediates and Couplers.
- e) Off the Scalp Powered Lighteners and Persulfate Salts.

5. Oxidizers:

- a) Peroxide, Sodium Bromate and Sodium Perborate.
- b) Peroxide Volume and Concentration.
- c) High Volume Peroxide and Pigment Packing.

6. pH:

- a) The pH scale.
- b) Ionization of Water.
- c) "Neutral" pH of Pure Water.
- d) Logarithms.

7. Alkalizing Agents:

- a) Hair Swelling and Peroxide Decomposition.
- b) Inorganic Alkalizing Agents:
 - 1) Ammonia and Metal Hydroxides.
- c) Organic Alkalizing Agents:
 - 1) alkanolamines, Monoethanolamine (MEA) and Aminomethylpropanol (AMP)
- d) Heat and Processing Machines.
- e) Enzymes and Chemical Accelerators

John Halal is the author of Hair Structure and Chemistry Simplified and Milady's Hair Care Ingredient and Product Dictionary. Although chemistry is usually complicated and confusing, it doesn't have to be. According to Halal, "Learning is the greatest joy in life. If it's not fun, you're not doing it right. Most of the education in our industry is brand influenced and doesn't always make sense." If you want to know the truth about the products you use and how they work, this class is for you. Knowledge is power and this class gives you the power that comes from knowing.