

# SYSTEM SECURITY      May 1 2009

## **Human factors in Security:**

1. Users ignore security functionality
2. Psychological Acceptability
3. Users are idiots
4. Security people are idiots
5. Security fail silently
6. User need good feedback
7. Daily fatigue

## **Bad lessons users learn:**

1. Expired certificates
2. Unauthenticated emails/ phone calls
3. Random redirects
4. Random failures

## **Challenges:**

1. Users untrained
2. Users may not care about security
3. Heterogeneous software
4. Different languages
5. Weakest link (Users)

## **Machine Registration / Authentication:**

1. Answer security question      ▪ Click on line in the registration e-mail
2. Sets a cook                      Phisher must capture email before use click on link
3. Can login, only with cookie and correct password

**“Security Skins”** are one way to alert the user.

When you open a website, check URL, lock. (Atleast ,this is what generally happens)

**Password Hash:**

1. User enters password
2. Submitted password

Hash( URL || password) is sent to the bank. So the bank cannot get your password.