Laplacian Sharpening

In [1]:

```
import cv2
import matplotlib.pyplot as plt
import numpy as np
```

In [2]:

```
imgfile = '../../db/jenny.jpg'
img= cv2.imread(imgfile, cv2.IMREAD_GRAYSCALE)
```

In [3]:

```
#Making image  blurry so we can sharpen it
blurred = cv2.blur(img, (10,10))
```

In [4]:

```
lap = cv2.Laplacian(blurred,cv2.CV_16S)

filtered = img - 0.7*lap
```

In [ ]:

```
plt.figure(figsize=(12,10))
plt.subplot(131), plt.title('Blurred'), plt.imshow(blurred, cmap='gray')
plt.subplot(132), plt.title('Laplacian'), plt.imshow(lap, cmap='gray')
plt.subplot(133), plt.title('Sharpened'), plt.imshow(filtered, cmap='gray')
plt.show()
```