### Miss America Facial and Body Feature Changes Across Social and Economic Conditions

Terry F. Pettijohn II & Melissa Yerkes

Mercyhurst College

Presented at the 16th Annual American Psychological Society Convention, Chicago, Illinois, May 28, 2004
E-mail: tpettijohn@mercyhurst.edu

### **Abstract**

Facial and body characteristics of Miss America pageant winners over the past 70 years were identified and investigated to explore their relationships with U.S. social and economic factors. A hard times measure was created using annual economic and social statistics that were compiled to form one general measure. Facial feature and body measurement values of Miss America were correlated with the general hard times measure. Negative relationships between social and economic hard times and Miss America body mass index and weight were found. Other relationships are discussed. Results of this research contribute new insight into perceptions and trends of beauty and human facial and body feature preferences.

### Introduction

• Past research has investigated ideals of beauty and how these ideals have changed across time. Mazur (1986) investigated body measurements (chest, waist, hips) of Playboy Playmates and Miss America contest winners across time and identified trends in body shapes. Singh (1993) reviewed these trends and reported that although there were fluctuations, there was little variation in the waist-to-hip ratio (WHR) in Playboy Playmates and Miss America winners across time. Pettijohn and Tesser (1999) found preferences for mature facial features in popular American actresses when social and economic conditions were threatening across time, although there was no systematic preference for actors (2003). Pettijohn & Jungeberg (in press) found facial and body feature preferences of Playboy Playmates of the Year were related to social and economic factors over time.

### Environmental Security Hypothesis (Pettijohn & Tesser, 1999)

Proposes that exposure to threatening environmental conditions will cause people to show a relatively greater preference for individuals with mature features, as compared to preferences under less-threatening conditions

### **Predictions**

- Although we anticipated relationships consistent with the Environmental Security Hypothesis, we expected these outcomes to be attenuated because a small number of judges determine winners, not the general public. Standards used in judging Miss America may be different from what the public determines to be attractive.
- Specifically, we expected Miss America to possess more mature facial and body feature measures during threatening social and economic times.

### Social and Economic Statistics Data Collection (1932-2001)

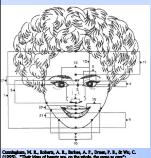
- Unemployment rate
- Change in disposable personal income
- Change in consumer price index
- Death rate, birth rate
- Marriage rate, divorce rate
- Suicide rate, homicide rate

### Miss America Measurements Data Collection (1933-2002)

 Age, Facial Measures, Bust, Waist, Hips, Waist-to-Hip Ratio, Height, Weight, Body Mass Index

# Miss America Facial Photographs Data Collection (1933-2002) Marilyn Meseke 1938 Debra Dene Barnes 1968 Leanza Cornett 1993

### Facial Feature Measurement



Fixed Interven measurements. (1) Length of face distance from hardine to been of chine. (2) Width of the art Archerbone distance between outer edges of chine. (2) Width of the art Archerbone distance between outer edges of the chine of the chine of the midde of the midde. (4) Chine with the chine of the midde of the midde of the midde. (4) Replication of the chine of the midde of the midde. (4) Replication of the chine of the chin

### General Hard Times Measure and Miss America Facial Features Correlations

Feature	r
Eye Width	05
Eye Height	.094
Eye Area	.043
Chin Length	102
Chin Width	068
Chin Area	110

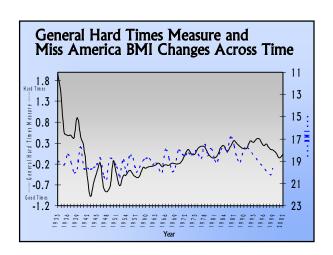
N=68 years. None of these values were statistically significant.

## General Hard Times Measure and Miss America Body Features Correlations

Feature	r	df
Age	.008	67
Waist	.194	51
Height	048	62
Weight	277 <b>*</b>	60
Bust	024	51
Waist-to-hip Ratio	.186	51
Body Mass Index	361**	58

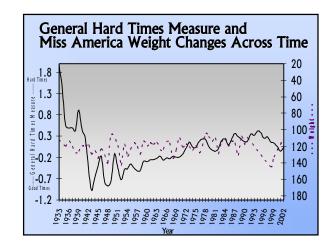
\*=p<.05, \*\*=p<.01

Different df reported due to unavailability of data for some years



## Miss America BMI and General Hard Times Measure Scatterplot (1933-2002)

General Hard Times Measure



### Discussion

 While a smaller BMI for pageant winners during economic hard times followed the trend of past research, the negative correlation of weight and economic security did not. The fact that Miss America winners weighed less in social and economic hard times could be attributed to a less curvaceous frame. Curves are correlated with economic security, so the slightly heavier, more curvaceous women would be chosen in good times, while the thinner, lighter body would have less figure and correlate with economic hard times.

### **Discussion**

- Although not significant, positive relationships between General Hard Times and Miss America waist and waist-to-hip ratio were also found. These findings are in line with predictions and replicate findings from a *Playboy* Playmate of the Year sample. When times are difficult, women with larger waists and a less curvaceous figure were selected as Miss America.
- There were no relationships between social and economic conditions and Miss America facial features. Facial features did not appear to vary systematically with the judge's choice of Miss America across time.

### **Discussion**

Overall differences in facial and body preferences were expected due to the nature of the judging. Miss America is judged by a panel of judges and these judges change from year to year, as do the criteria they use. The individual competition portions have changed in value over the years, focusing less on attractiveness and more on accomplishments. Therefore, without a standardized assessment or consistent judge panel, it is difficult to compare the winners across time. These few judges select a winner, while past research subjects, actresses and Playboy Playmates of the Year, were judged on attractiveness based upon the public's popular vote, a much larger population. Therefore, the relationship between Miss America pageant winners and the Environmental Security Hypothesis may have been attenuated.

### References

- Mazur, A. (1986). U.S. trends in feminine beauty and overadaptation. The Journal of Sex Research, 22, 281-303.
- Pettiohn, T. F. II, & Tesser, A. (1999). An investigation of popularity in environmental context: Facial feature assessment of American movie actresses. *Media Psychology*, 1, 229-247.
- Pettijohn, T. F. II & Tesser, A. (2003). History and facial features: The eyes have it for actresses but not for actors. North American Journal of Psychology, 5 (3), 335-344.
- Pettiphon, T. F. II, & Jungeberg, B. (in press). Playboy Playmate Curves: Changes in facial and body feature preferences across U.S. social and economic conditions. Personality and Social Psychology Bulletin.
- Singh, D. (1993). Adaptive significance of female physical attractiveness: Role of waist-to-hip ratio. *Journal of Personality* and Social Psychology, 65, 293-307.