The 4th RMUTP International Conference: Textiles & Fashion

3-4 July 2012, Pullman Bangkok King Power, Bangkok, Thailand

INTRODUCTION

ASEAN Free Trade Area (AFTA) and ASEAN Economic Community (AEC) play an important role in economic changes in ASEAN especially in the fields of industrial textiles, garment and fashion. Rajamangala University of Technology Phra Nakhon has realized this issue; therefore, the 4th RMUTP International Conference is hosted on 3-4 July 2012 at Pullman Bangkok King Power Hotel. The conference provides a great opportunity to bring together scientists, scholars, students from academia and industry all over the world to exchange experience, discuss cooperation and poster presentations are encouraged researchers to present work-in-progress or significant work on topics relevant to textiles and fashion.

"Textiles & Fashion," the theme of this year’s conference focuses on "Textile Technology & Innovation," "Textile Chemistry & Finishing," and "Eco-Textiles & Fashion Design". Our co-host for this event will be the Technical University of Liberec from the Czech Republic and feature some seventy foreign and thirty-five Thai participants. This conference has three keynote presentations on the topics of Textiles & Fashion: Future Trends in Textile Branch" by Prof. Ing. Jíří Militký (Czech Republic), “Trend Forecasting” by Prof. Veronica Bogao (Italy) and “Trends in Technical Textiles” by Prof. Ing. Syaed Ibrahim (Czech Republic).

RMUTP’s 4th International Conference looks set to be one of our best ever, and congratulates all of you who have worked hard on making it such a successful project.

With warm regards,
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International Conference: Textiles and Fashion
3-4 July 2012
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Thai Children Standard Sizes

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Abstract: The objective of this research was to determine Thai girls and boys standard sizes. Thai body structure data step 4, collected in 2000-2001 of Thai Industrial Standards Institute were used. There were 2,288 girls samples and 2,233 boys samples aged 2-15 years. The sizes had been divided into seven intervals: extra extra small (XXS), extra small (XS), small (S), large (L), extra large (XL), and extra extra large (XXL). Means of body measurements were assigned as medium size. The results were as follows: 1) Thai girls medium sizes were 8-9 years of aged, Thai girls medium sizes (M) were 128.00 cm height, 64.50 cm chest, 57.00 cm waist, and 70.00 cm hip. 2) Thai boys medium sizes were 8-9 years of aged, Thai boys medium sizes (M) were 129.00 cm height, 64.50 cm chest, 60.00 cm waist, and 68.50 cm hip.

Keyword: Thai children standard sizes, Thai girls standard sizes, and Thai boys standard sizes

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THAI CHILDREN STANDARD SIZES

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Introduction

The garment industry has produced ready-to-wear products for both overseas and domestic markets. In 2005, the consumption value of products in Thailand was at 317,059 million baht of which about 70 per cent were produced locally. In 2006-2015, the garment market has been expected to grow up at 2 percent per year [6].

1. Thai children body structure data

In order to determine Thai men and women sizes, the Thai body structure data Step 4, collected in the years 2000-2001 were used [5]. Samples were 2,288 Thai girls out of 31,660,225 Thai women population aged 1 – 49 years, and 2,233 Thai boys out of 31,139,647 Thai men population aged 1 – 49 years.

2. Determination of Thai girls and Thai boys standard sizes

Samples were Thai girls and Thai boys aged 2 – 15 years. The Thai children standard sizes were divided into seven intervals: extra small (XXS), extra small (XS), small (S), large (L), extra large (XL), and extra extra large (XXL). To find the mean sizes and grading sizes, the girls and the boys body measurements were used in calculation as follows:

1) To determine the mean body measurement of each body description.
2) To determine the range body measurement of each body description.
3) To determine the grading size of each body description by dividing the range value by seven intervals.
4) The means values were then assigned as the medium size.
5) In the seminar, the median size was used to make patterns by using the 3D program; then the samples were made by instructors and students of Rajamangala University of Technology Thanyaburi (RMUTT), and manufacturers from garment industries. All participants discussed the results and adjusted the medium body sizes and the grading sizes to whole numbers or to 0.50 for convenience in pattern making. Finally, all sizes were then determined.

Results and Discussion

The adjusted mean body measurements were assigned as medium sizes. With the grading sizes, the XXS, XS, S, L, XL, and XXL sizes were determined. Letter sizing was used in order to specify the size designations. Brown and Rice stated that letter sizing helps to reduce inventory [2]. In the seminar, participants selected the letter sizing system for Thai standard sizes because most of them were garment manufacturers who produce moderate price garments. Furthermore, the letter sizing system also offers different size ranges [3]. Results are shown in Figure 1, Table 1 and Table 2.

Conclusion

The body measurements of Thai girls and boys aged 2 -15 years, collected in the year 2000-2001, were determined to find Thai standard sizes. Means of body measurements were calculated and assigned as a medium size (M). The other sizes were XXS, XS, S, L, XL and XXL. The results revealed that 1) Thai girls medium sizes were of Thai girls aged 8 -9. Thai girls medium sizes (M) were 128.00 cm height, 64.50 cm chest, 57.00 cm waist, and 70.00 cm hip. 2) Thai boys medium sizes were of Thai boys aged 8 -9. Thai boys medium sizes (M) were 129.00 cm height, 64.50 cm chest, 60.00 cm waist, and 68.50 cm hip.

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References

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