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## Waves Motion, Properties and Solitary Wave Solutions For KdV Equation

Sein Win\*

### Abstract

In this paper, we express the properties of wave motion for nonlinear long waves in shallow water. Under suitable boundary conditions, the wave equations are derived. Finally, we derive the model travelling wave solution of the reduced KdV equation.

Key words: long waves, shallow water, reduced KdV equation.

## A Brief Study of Socrates' View on Knowledge

Thaw Tar Myint<sup>1</sup>

### Abstract

The ethical teaching of Socrates was founded upon the theory of knowledge. Socrates believed that the search for truth is the most important aim of man's life. Socrates seems to have held that human excellence consists in knowledge. For Socrates, man can never know exactly the nature of the world, its origin, and its end, but man can know what we ourselves ought to be, what is the meaning and the aim of life, the highest good of the soul, and this knowledge alone is real and useful because it is the only possible.

**Key words:** Ethical, theory of knowledge, real

## **The British Diplomats of Myanmar during Yadanapon Period**

Su Su Ko<sup>1</sup>

### **Abstract**

An attempt has been made to study about the famous British diplomats who had come to Myanmar during Yadanapon Period. They came to Myanmar for many different reasons. Some tried to get amicable relationship between two countries. They came to Myanmar as residents, representatives and agents on behalf of their government. But sometimes, their efforts created the tension between two countries. Nevertheless, whatever circumstances they had to come with any it could be said that they had played an important role in Myanmar relations with Britain.

**Key words:** British diplomats, Yadanapon Period, amicable relationship

## A Study of Ayeyeikchaung Meditation Center in Myeik

Hnin Htwe<sup>1</sup>

### Abstract

This paper presents a brief study of the method of Vipassanā meditation practised in Mahāsī meditation Center in Myanmar. Moreover, it also includes the brief biography of Mahāsī Sayadaw, the first founder of Mahāsī Sāsanayeikthā, and his method of mindfulness meditation, the location and background history of Ayeyeikchaung meditation Center and the present presiding sayadaw. The administration systems, the method of taking care for Yogī and daily routine of the meditation Center are basically mentioned in this paper.

**Key words :** *Paṭipatti Sāsanā (the practice of the Buddha's teaching)*

**မြန်မာဘာသာစကားရှိဝါကျများ၏အနက်အဓိပ္ပာယ်နှင့်အဆက်အစပ်  
ဝင့်ဝါဝါလှိုင်\*  
စာတမ်းအကျဉ်းချုပ်**

ဤစာတမ်းသည်မြန်မာဘာသာစကားရှိဝါကျများ၏အနက်အဓိပ္ပာယ်နှင့်အဆက်အစပ်ကိုအတ္ထုပ္ပေးအဖြစ်ဖြင့်လေ့လာဆောင်ရွက်ထားပါသည်။ လူတို့သည်တစ်ဦးနှင့်တစ်ဦး ဘာသာစကားဖြင့် ပြောဆို ဆက်သွယ်ကြရာတွင် ဘာသာစကားကိုအခြေခံ၍ ဆက်သွယ်ကြရာ၌ စကားလုံးများဖြင့် ဖွဲ့စည်း ထားသည့်ဝါကျများဖြင့်ပြောဆို ဆက်သွယ်ကြရသည်။ ဝါကျများ၏ အနက်အဓိပ္ပာယ်သည်ထိုဝါကျအတွင်းတွင်ပါဝင်သော စကားလုံးများ၏ အနက်အဓိပ္ပာယ်အပေါင်းပေါ်နှင့်ထိုစကားလုံးများ စီစဉ်ဖွဲ့ စည်းထားသည့် ဖွဲ့ထုံးစည်းကမ်းပေါ်တွင် မူတည်ပုံ၊ဝါကျတွင်းအဆက်အစပ်၊ အပြင်အဆက်အစပ် ကိုလိုက်၍ အနက်အဓိပ္ပာယ်များ ကွဲပြားပုံ၊ ပြောင်းလဲပုံ၊ ပြောသူ၊ နာသူတို့၏ အခြေအနေ အဆက်အစပ်ပေါ်မူတည်၍ အနက်အဓိပ္ပာယ်သက်ရောက်ပုံများကိုသိရှိစေရန်ရည်ရွယ်၍ ဤစာတမ်းကို ပြုစုခဲ့ခြင်းဖြစ်ပါသည်။ လေ့လာမှုနယ်ပယ်ကန့်သတ်ရာတွင် မြန်မာဘာသာစကားရှိ ဝါကျများ၏ အနက်အဓိပ္ပာယ်သက်ရောက်မှုကိုသာ ရွေးချယ်ကန့်သတ်ထားပါသည်။ ဤသို့လေ့လာခြင်းဖြင့် ဘာသာစကားအဖြစ် အသုံးပြုလျက်ရှိသော ဝါကျများ၏ အနက်အဓိပ္ပာယ်သည် လောကအတွေ့အကြုံနှင့် ဆက်သွယ်လျက်ရှိကြောင်း ပိုမိုပေါ်လွင်လာသည်ကိုတွေ့ရပါသည်။

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## A Study on the Chemistry of *Glycine max* L. (Pae` Poke ) Oil

Nyunt Nyunt Sein<sup>1</sup>, Yin Yin Nu<sup>2</sup> and Win Myint Oo<sup>3</sup>

### Abstract

Possible utilization of *Glycine max* L. (Pae` Poke ) oil for edible and non-food purposes were investigated in this research work. Physical characteristics such as refractive index, specific gravity, viscosity were determined by standard method. Due to the investigation of physical characteristics, the value of refractive index, specific gravity, viscosity were found to be 1.464, 0.916 and 34.20 cp, respectively . The chemical characteristics such as acid value, free fatty acid, peroxide value, iodine value, saponification value and saponification equivalent were determined by recommended commercial methods of analysis for vegetable oils and fats. From these results were found to be 2.83 (mg KOH/g oil), 1.42 %, 0.05(meq/kg),135, 192(mgKOH/g) and 292.20, respectively. The study of characteristics showed that *Glycine max* L. (Pae` Poke ) oil may be used not only for edible purpose but also for non-food purposes such as soap making and as raw materials for drying oil processing .

**Key words :** *Glycine max* L.,Physical Characteristics , Chemical Characteristics



## Growth and Characterization of Undoped Zinc Oxide Solar Cell

Ei Thu Zar<sup>1</sup>

### Abstract

Zinc oxide thin film was prepared on SiO<sub>2</sub>/Si substrate by spin coating technique. The microstructural properties were studied by Scanning Electron Microscopy (SEM). An Indium Tin Oxide (ITO) conductive layer was deposited on ZnO film in order to minimize the cell degradation. Current voltage (I-V) characteristics of ITO coated cells were observed under dark condition. I-V characteristics of illuminated cell were measured by exposing to monochromatic light produced from Na-Lamp. Some performance parameters for the cell could be determined and compared to those of illuminated cell without buffer layer.

**Keywords:** ZnO, spin coating, SEM, I-V characteristics, solar cell

## Study on the mangrove fauna fisheries of Taninthayi Coastal Waters

\*Nang Mya Han

### Abstract

The present paper described the fishes common in the water areas and its fisheries of the adjacent of mangroves areas in Taninthayi Coastal Waters emphasis on the Myeik and Kyun-su Water Areas, which lies on between N. Lat.12 °13' – N. Lat. 12° 44' and E. Long.98°16' - E. Long.98°38'. According to the sampling data the most abundant five species of fin fish and shell fish, the second abundant twenty species of fin fish and shell fish, and the less capture twenty one species of fin fish and shell fish were described. Their seasonally abundance were also described. The common fishing gears used in Mangrove fauna fisheries and its fishing methods were described by the aids of diagrams.

**Keywords:** mangroves, mangrove fauna, mangrove fauna fisheries, fish gears, and fishing methods.

## Petrography and Provenance Study of Kyaikkhame-Setse Sediments

Tun Tun Zaw<sup>1</sup>

### Abstract

The study area situating in south western part of the Mon State, lying between Latitude 15° 55' to 16° 05' N and Longitude 97° 32' to 97° 40' E, covers about 128 square kilometers, 0.25 mm to 0.125 mm sediment grains made into thin section slides were studied under polarizing microscope. In sediment petrography, various detrital constituents in Kyaikkhame-Setse sediments indicate that they were derived from extrusive/intrusive igneous body, low to high rank metamorphic area and pre-existing sedimentary terrain exposed in upland area. According to Q F RF ternary diagram, nearly all of the sediments are arkose sands, but some are lithic arkose sands. In provenance study, sediments fall in the field of Recycled Orogenic, Transitional Continental, Basement Uplift, Dissected Arc, Mixed Orogenic Sands, Arc Orogen Sources, Mixed magmatic Arc and Subduction complexes sources.

**Key words:** sediment petrography, arkose sands, lithic arkose sands, provenance

## Importance Value Index and Floristic Diversity Assessment of Pahtaw Taung Forest, Kyun-su Township, Taninthayi Region

Wah Wah Khaing<sup>1</sup>, Sanda Hlaing<sup>2</sup>, Htay Htay Win<sup>3</sup>, Mi Mi Aye<sup>4</sup>, Lett Lett Khaing<sup>5</sup>

### Abstract

Floristic diversity index of canopy layer was (5.24, 0.96) (i.e. Shannon-Wiener Index, Simpson Index). Where diversity index of understorey layer 1 (4.34, 0.92) was relatively higher than understorey layer 2 (3.34, 0.83). Ecological successful species with the highest important value were *Gluta renghas* L., Lay tha yet (22.23%), *Semecarpus pandurata* Kurz., Chee (21.43%), *Syzygium cymosum* D.C Thabye-htat ta ya (17.64%) and this research will show to recognize the information and phytosociological data of the actual natural vegetation and to develop practical technology for environmental management of forest community in the Pahtaw Taung Forest, Kyun-su Township, Taninthayi Region.

**Keywords** – species diversity, phytosociological data, natural vegetation.

## Study on Some Economically Important Groupers of Myeik Archipelago

Naw Lah Pwai Paw<sup>1</sup>, Yee Yee Win<sup>2</sup>, Than Than Htay<sup>3</sup>

### Abstract

In this paper, groupers from Grouper-farming which is situated in Ye-Pyitaw and Thandar Kyun of Myeik archipelago are presented. Eight grouper species of the family Serranidae had been studied and described. They are *Anyperodon leucogrammicus*, *Cromileptes altivelis*, *Epinephalus malabaricus*, *E. coioides*, *E. chlorostigma*, *E. lanceolotus*, *E. fuscoguttatus*, and *E. tauvina*. Their distinctive characters, used, market and effective fishing gears are also described.

**Key words:** grouper species, characters, Myeik archipelago

**Study on the biology of Pumpkin leaf roller *Diaphania indica*  
( Pyralidae : Lepidoptera ) on Cucumber in Hlegu Township**

Yee Yee Cho<sup>1</sup>

**Abstract**

The pumpkin leaf roller *Diaphania indica* ( Saunder, 1851 ) is primarily attacks on tender leaves of cucumber. The morphology and life cycle of this species was studied in Vegetable, Fruit and Research Development Centre ( V.F.R.D.C ) Farm in Hlegu and captivity. The studied period lasted from May, 2010 to December, 2011. Sexual dimorphism is obvious in leaf roller. The breeding season is from the end of June to early part of November, the peak being in the month of October. The entire life cycle from egg to emergence of adult lasted from 23-36 days. A four generations per year of this species was examined.

**Keywords:** pumpkin leaf roller, morphology, life cycle