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| **(PETROLEUM, COAL & RELATED PRODUCTS DEPTT.)** | | |
| **AGENDA** | | | |
| **Rubber and Rubber Products Sectional Committee, PCD 13** | | | **35th Meeting** |
| **DATE & TIME** | | **Monday, 1000 h, 08 July 2024** | |
| **VENUE** | | **Indian Rubber Manufacturers Research Association (IRMRA)**  254/1 B, Rd Number 16U, Wagle Industrial Estate, Thane West, Maharashtra 400604 | |
| **CHAIRMAN** | | **Dr. K Rajkumar,Director, IRMRA** | |
| **MEMBER**  **SECRETARY** | | Shri Rajat Gupta, Scientist ‘C’/ Deputy Director (PCD), BIS  E-mail: [pcd13@bis.gov.in](mailto:pcd13@bis.gov.in) | |

## ITEM 0 OPENING OF THE MEETING

**0.1 Welcome by Bureau of Indian Standards**

**0.2 Opening Remarks by Chairman**

**ITEM 1 CONFIRMATION OF MINUTES OF THE LAST MEETING**

The Minutes of the 34th meeting of Rubber and Rubber Products Sectional Committee, PCD 13 held on 14 July 2023, was circulated to the members through BIS portal dated 2nd August 2023.

No comments have been received on the circulated minutes.

*The committee may* ***CONFIRM*** *the minutes as circulated.*

**ITEM 2 THE PRESENT TITLE, SCOPE AND COMPOSITION OF PCD 13**

**2.1** The present **scope** of PCD 13 Sectional Committee is “To formulate Indian Standards for terminology, environmental aspects, code of practice, specifications for natural rubber, synthetic rubber, reclaimed rubber, vulcanized rubber and rubber products (excluding rubber conveyors and transmission belting, rubber cables and rubber products for automobile industry), hoses & hose assemblies, elastomeric isolators, raw materials for rubber and rubber industry, flexible and semi-rigid cellular materials [made of rubber and thermoplastic rubbers (TPE & TPR)].”

**Liaison:** 1) ISO TC 45 – Rubber and rubber products - Participating (P)

2) ISO TC 45 / SC 1 – Rubber and plastic hoses and hose assemblies – Participating(P)

3) ISO TC 45 / SC 2 - Testing and analysis – Participating (P)

4) ISO TC 45 / SC 3 - Raw materials (including latex) for use in the rubber industry – Participating (P)

5) ISO TC 45 / SC 4 - Products (other than hoses) – Participating (P)

**2.2** The Composition of PCD 13, the attendance of the organizations representing the Committee, in the last three meetings is given as **ANNEX I** and the Committee may review

 

**2.3 Change in nominations in PCD 13**

Letter has been received from Reliance Industries Limited (RIL), Vadodara for representation on the Sectional Committee of PCD 13. RIL informed by the mail that Mr. Ramchandra Ghosh and Mr. Gajendra Inani left their organization and they are nominating Mr. Sushil Mandot and Mr. Mrinmoy Debnath in PCD 13.



*The Committee may* ***NOTE.***

**2.4 Request for Representation in PCD 13 Sectional Committee**

**2.4.1 The Rubber Board**

Nominations have been received from The Rubber Board for representation in the PCD 13 Sectional Committee. They have nominated Dr. Shera Mathew and Mr. Madhusoodan. K.N to be a member of the committee.



*The Committee may* ***CONSIDER.***

**2.4.2 Devashish Polymers Pvt., Ltd.**

A request has been received from Devashish Polymers Pvt., Ltd. for representation in the PCD 13 Sectional Committee. They have nominated Shri Nikhil Mody, to be a member of the committee.



*The Committee may* ***CONSIDER.***

**2.4.3 MM Rubber Co Ltd.**

A request has been received from MM Rubber Co Ltd. for representation in the PCD 13 Sectional Committee. They have nominated Mr. Joseph Cherian and Mrs. Ammu Varghese, to be a member of the committee.



*The Committee may* ***CONSIDER.***

**2.4.4 Laghu Udyog Bharati, New Delhi**

A request has been received from Laghu Udyog Bharati, New Delhi for representation in the PCD 13 Sectional Committee. They have nominated Shri Varun Mittal, to be a member of the committee.

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*The Committee may* ***CONSIDER.***

**2.4.5 Dr. Siby Varghese, In personal Capacity**

*The committee may* ***CONSIDER.***

**ITEM 3 ISSUES ARISING OUT OF PREVIOUS MEETINGS**

**3.1 Review/Revision of Indian Standards**

The present status of the standards taken for review in the previous meeting are attached below:



**3.2 Formulation of Indian Standards on ‘Soothers and pacifiers for babies and young children’**

**Status** — Working draft received from CHEMCO on **‘Soothers and pacifiers for babies and young children’** is attached below along with the comments received from Dr. RK Matthan :

  

*The committee may* ***CONSIDER.***

**3.3 Formulation of Indian Standards on** (**i) ‘Effect on Water Quality’ and (ii) ‘Microbiological Deterioration’**

During the 34th meeting, the Committee decided to make only one Indian standard for ‘Determination of Migration of Hazardous and Restricted Substances from Rubber, Rubber Materials and Products’ (migration to water comes under effect on water quality) and 'Requirement and Test Method for determination of Microbiological Deterioration’ (microbiological deterioration of rubber, rubber material). The Committee further requested Working Group 02 to prepare the draft standard in Indian Standard format on priority basis. (Title- Requirement and methods of tests for ‘Effect of Rubber Seals on Water Quality’ and 'Resistance of Rubber Seals to Microbiological Deterioration’)



**Status** — Final Draft awaited.

*The committee may* ***CONSIDER.***

**3.4 Formulation of Indian Standards on ‘GRAS (Generally Recognized as Safe)/GNRAS (Generally Not Recognized as Safe) of Rubber compounding additives and chemicals’**

During the 34th meeting, the Committee decided to add the list of ‘GRAS (Generally Recognized as Safe)/GNRAS (Generally Not Recognized as Safe) of Rubber compounding additives and chemicals’ in the draft Indian Standard as mentioned in Item 3.3 of the agenda, which is under development. The Committee further requested Working Group 02 to prepare the draft standard in Indian Standard format on priority basis.

**Status** — Draft awaited

*The committee may* ***CONSIDER.***

**3.5 Formulation of Indian Standards on ‘Silicone gadgets for kitchen’**

An R&D project has been allotted to Dr. Debdipta Basu, Indian Rubber Manufacturers Research Association (IRMRA) on “Study of material properties of Silicone for use in Silicone gadgets for kitchen.” Timeline is 3 months.

*The committee may* ***NOTE.***

**3.6 Formulation of Indian Standards on ‘Silicon Rubber’ [***Proposed by DCPC***]**

The First Virtual Meeting of the Panel 10 in joint session with Panel 11 was held on 06 July 2023 in which during deliberations the members opined that silicone rubber raw material is available in wide range for varied application purposes such as Automobile sector, medical devices, cooking, baking, and food storage products, apparels, sportswear, and footwear, electronics, home repair and hardware etc. Silicone rubber raw material is much customized product and therefore it may not be possible to formulate and Indian Standard on the subject. ISO Standard, ISO/TR 17051:2020 gives highly generalized ranges of silicone rubber and does not do any value addition for B to B purchases of silicone rubber.

*The committee may* ***CONSIDER.***

**3.7** **Revision of IS 7069: 2001 Benzothiazyl - 2 - Cyclohexyl sulphenamide (Cbs) - Specification (Second Revision)**

During the 34th meeting, the Committee requested BIS Sectt. to send a reminder to NOCIL, Lanxess and Finorchem, Vadodara for seeking inputs for the revision of the Indian Standard.

**Status —** Inputs awaited

*The committee may* ***CONSIDER.***

**3.8 Revision of IS 14923 : 2001 Polymerized 1,2, dihydro 2,2,4 - Trimethyl quinoline (TMQ) – Specification**

During the 34th meeting, the Committee requested BIS Sectt. to send a reminder to NOCIL, Lanxess and Finorchem, Vadodara for seeking inputs for the revision of the Indian Standard.

**Status —** Inputs awaited

*The committee may* ***CONSIDER.***

**3.9 Revision of IS 15078: 2001 Petroleum based process oils for rubber industry – Specification**

During the 34th meeting, the Committee requested BIS Sectt. to send a reminder to Dr Bharat Sharma, Techno Waxchem, IOCL, HPCL, BPCL, MRF and ATMA for seeking inputs for the revision of the Indian Standard.

**Status —** Inputs awaited

*The committee may* ***CONSIDER.***

**3.10 Formulation of Indian Standard on ‘Recovered Carbon Black’.**

During the 34th meeting, the Committee requested the Panel 11 to complete the work on priority basis.

**Status —** Working draft is prepared. It needs to be updated before circulating as P-Draft.

*The committee may* ***CONSIDER.***

**3.11** **New Work Items proposed by APCOTEX**

During the 34th meeting, the following working drafts was to be provide by Apcotex on subjects proposed as follow:

**i)** Nitrile Butadiene Rubber (NBR)

**ii)** Carboxylated Nitrile Butadiene Rubber (XNBR) latex

**iii)** High Styrene Rubber (HSR)

**iv)** Carboxylated styrene acrylic latex

However, these 4 subjects were dropped with the approval of Chairman of the PCD 13 through mail dated 07 Dec 2023 since these were not urgent as of now for preparation of Indian Standard and can be taken up later.

*The Committee may* ***NOTE.***

**3.12** **Formulation of Indian Standard on Polyolefin Elastomer** **[***Proposed by DCPC***]**

During the 34th meeting of PCD 13, the committee agreed to the transfer of the subject i.e. Polyolefin Elastomer, from PCD 12 to PCD 13 Sectional Committee which was further approved by PCDC in its 25th meeting held on 21st Feb 2024.



*The committee may* ***CONSIDER.***

**ITEM 4 DRAFT STANDARDS FOR FINALIZATION**

The documents given below Sl.No.1 to 17 have completed their wide circulation period.

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Document No. / Title** | **Last Date of Comments** |
|  | PCD 13 (24810) Thermoplastic elastomers nomenclature and abbreviated terms (First revision of IS 17138) | 09 April 2024 |
|  | PCD 13 (24812) WC Rubber hoses, textile-reinforced, for compressed air — Specification (Sixth revision of IS 446) | 09 April 2024 |
|  | PCD 13 (24813) WC Rubber hoses and hose assemblies for liquefied petroleum gas (LPG) in motor vehicles — Specification (Second revision of is 15355) | 09 April 2024 |
|  | PCD 13 (24814) WC Rubber hoses, textile-reinforced, for general-purpose water applications — Specification (Sixth revision of IS 444) | 09 April 2024 |
|  | PCD 13 (24815) WC Rubber seals — Joint rings for water supply, drainage and sewerage pipelines — Specification for materials (Third revision of is 5382) | 09 April 2024 |
|  | PCD 13 (24817) WC Rubber hoses and hose assemblies for sand and grit blasting — Specification (Fourth revision of IS 5894) | 09 April 2024 |
|  | PCD 13 (24819) WC glossary of terms used in rubber industry (First revision of IS 7503) | 09 April 2024 |
|  | PCD 13 (24820) WC Wire reinforced rubber covered hydraulic hose — Specification (Fourth revision of IS 7651) | 09 April 2024 |
|  | PCD 13 (24821) WC Thermoplastics hoses (textile reinforced) for compressed air— Specification (Second revision of IS 12492) | 09 April 2024 |
|  | PCD 13 (24827) WC Rubber, raw natural — Guidelines and requirements for technically specified low-protein natural rubber (*New Standard*) | 09 April 2024 |
|  | PCD 13 (25078) WC Barytes for rubber industry — Specification (Third revision of IS 1683 | 17 May 2024  Comments received from the Anup Chandra. The file attached below:    *The Committee may* ***DELIBERATE*** *on the comments received and* ***CONSIDER*** *finalizing the draft revision for printing.* |
|  | PCD 13 (25079) WC Red oxide of iron for rubber industry — Specification (Third revision of IS 1684) | 17 May 2024  Comments received from the Anup Chandra. The file attached below:    *The Committee may* ***DELIBERATE*** *on the comments received and* ***CONSIDER*** *finalizing the draft revision for printing.* |
|  | PCD 13 (25080) WC whiting for rubber industry— Specification (Second revision of IS 1685) | 17 May 2024 |
|  | PCD 13 (25081) WC Sulphur for rubber industry — Specification (Second revision of IS 8851) | 17 May 2024 |
|  | PCD 13 (25110) WC Titanium dioxide (Anatase type) for rubber industry — Specification (First revision of IS 8862) | 21 May 2024 |
|  | PCD 13 (25111) WC Styrenated phenol — Specification (Second revision of IS 7351) | 21 May 2024 |
|  | PCD 13 (25112) WC Ebonite — Specification (First revision of IS 6693) | 21 May 2024 |

No comments have been received on wide circulation documents except Sl. No. 11 and 12.

*The Committee may* ***CONSIDER*** *finalizing the WC drafts for printing.*

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Document No. / Title** | **Last Date of Comments** |
|  | PCD 13 (25765) Specification for post - Mortem rubber gloves (revision of 4149) | 29 July 2024 |
|  | PCD 13 (25998) Vinyl Pyridine Latex Specification (First revision of IS 12844) | 25 August 2024 |
|  | PCD 13 (25999) Light magnesium oxide for rubber industry Specification (First revision of IS 9407) | 25 August 2024 |

*The Committee may* ***CONSIDER.***

**ITEM 6 DOCUMENTS UNDER PRINTING**

|  |  |
| --- | --- |
| **Sl.**  **No.** | **IS No. & Title** |
|  | PCD 13 (21620) F Sheet rubber jointing and rubber insertion jointing — Specification (Third revisionIS 638) |
|  | PCD 13 (21656) F Hot water hose of rubber — Specification (Third revision IS 5821*)* |
|  | PCD 13 (21822) F Wire reinforced rubber hose for sand and gravel suction and discharge services — Specification (First revision IS 13071) |
|  | PCD 13 (21838) F Oil and solvent resistant hose of rubber — Specification (Fourth revision IS 635) |
|  | PCD 13 (22204) F Rubber hydraulic hose with textile reinforcement— Specification (First Revision IS 10660) |

*The Committee may* ***NOTE.***

**ITEM 7** **COMMENTS ON PUBLISHED STANDARDS**

**7.1 Comment on IS 7933:2022 Specification for Flexible Polyurethane Foam for Domestic Mattresses**

i) Comments received from the **CMD II** on the IS 7933 standard on 8 January 2024 and attached file given below:



ii) Comments received from the **Springwel Mattresses** on the IS 7933 standard on 10 January 2024 and attached file given below:



iii) A query received from the **JPBO-II** on the IS 7933 standard on 10 December 2023 and attached file given below:



*The Committee may* ***CONSIDER.***

**7.2 Comment on IS 3399 : 2013 Zinc oxide for rubber industry - Specification (Third Revision)**

An ARP is allotted to Mr. Harish Meena, Sc.B. Comments received from the **Dr. Arup K. Chandra** on the IS 3399 standard on 8 January 2024 and attached file given below :



*The Committee may* ***CONSIDER.***

**7.3 Comment on IS 12076 : 1986 Specification for precipitated silica for rubber industry**

Comments received from **Sujoy Bhattacharyya** from **Tata Chemical Ltd.** on the given standard. File attached below:



*The Committee may* ***CONSIDER.***

**7.4 Comment on IS 14127 : 1995 Insoluble(Amorphous) sulphur for rubber industry – Specification**

Comments received from **Dr Arup K Chandra** on the given standard. File attached below:

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*The Committee may* ***CONSIDER.***

**7.5** **Comment on IS 9573 (Part 1)** **Rubber hose for LPG, Part 1: Industrial Application and IS 9573 (Part 2) Rubber hose for LPG, Part 2: Domestic & Commercial Application**

Comments received from **Delhi test house** on the given standard mention above. File attached below:



*The Committee may* ***CONSIDER.***

**7.6 Comments on IS 12585 : 2023 Specification for Thermoplastic Hoses (Textile Reinforced) for Water — General Purpose ( First Revision )**

Comment received from **Laghu Udyog Bharati** on the given standard mention above. File attached below:

**** ****

*The Committee may* ***CONSIDER.***

**7.7 Comments on IS 7466 : 2023 Rubber Gasket for Pressure Cooker — Specification**

Comments received from **Nikunj Shah, Borivli Rubber Works** on the given standard mention above. File attached below:

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*The Committee may* ***CONSIDER.***

**7.8 Comments on IS 11356 (Part 1) : 2023 Styrene-Butadiene Rubber Latex — Specification Part 1 Non-Carboxylated and IS 11356 (Part 2) : 2023 Styrene-Butadiene Rubber Latex — Specification Part 2 Carboxylated**

1. Comments received from **ENOES** on the given standard mention above. File attached below:

****

1. Comments received from BASF was discussed in Panel 5. Below mentioned files gives the latest update:

  

*The Committee may* ***CONSIDER.***

**ITEM 8 INTERNATIONAL ACTIVITIES**

**8.1 Meetings of ISO TC/45 – Rubber and Rubber Products and its Subcommittees**

The 71st meeting of ISO/TC 45 ‘Rubber and Rubber Products**’** scheduled from 30 Oct-3 Nov 2023 at Thailand was attended by the following Indian delegation given below :

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Name** | **Organization** |
|  | Dr. K. Rajkumar, Chairman PCD 29  **(Head of Delegation)** | Indian Rubber Manufacturers Research Association |
|  | Dr. Siby Varghese, Chairman PCD 13 | Rubber Research Institute of India |
|  | Dr. Bharat Kapgate | Indian Rubber Manufacturers Research Association |
|  | Dr. Ranjit K Matthan | In personal capacity |
|  | Dr. Arup K. Chandra | In Personal Capacity |
|  | Sh. Srikanth Krishnamurthy | All India Rubber Industries Association |
|  | Sh. Chinmoy Ray | All India Rubber Industries Association |
|  | Sh. Philip C. Jacob | Association of Planters of Kerala |
|  | Sh. Santosh Kumar | United Planters Association of Southern India |
|  | Sh. Satish Abraham | Association of Latex Producers of India |
|  | Dr. Saikat Das Gupta | HASETRI |
|  | Sh. Praveen Mathew | K.A. Prevulcanised Latex Pvt.Ltd. |
|  | Sh. Niteesh Kumar Shukla | Automotive Tyres Manufacturers Association, New Delhi |
|  | Sh. Rajat Gupta, Sc. C/DD | BIS |

Report of the meeting is attached herewith:



The Committee may **NOTE.**

**8.2 72nd meetings of ISO/TC 45 ‘Rubber and Rubber Products’ scheduled during 21 Oct- 25 Oct 2024 in Nara, Japan (face to face meeting) – Proposal for Indian Delegation**

India is a participating member (P-member) on ISO/TC 45, Rubber and Rubber Products Technical Committee (TC 45), and all its Subcommittees. As a ‘P’ member of ISO/TC 45, India has the obligation of casting votes for the various draft standards/documents (New Work Items Proposal, Committee Drafts, Draft International Standards, Finalized Draft International Standards etc.) received from the Secretariat from time to time. India has been sending comments on these documents after collating the comments received from representatives of the Indian industries since long.

72nd meeting of ISO/TC 45 'Rubber and Rubber Products' is scheduled for 21 Oct- 25 Oct 2024 in Nara, Japan.

In the context of the above, BIS Sectt. requested members of PCD 13 and PCD 29 to consider nominating expert(s) as part of the Indian Delegation to attend the above mentioned meeting keeping in view the following:

a) Specialized technical knowledge and experience in the area(s) within the scope of TC 45

b) Knowledge of Indian and complimentary positions on the subjects and ability to put forth Indian view point.

c) Contributions made in the activities of Sectional Committees, PCD 13 &/or 29 through participation in the PCD meetings and/or commenting on standards and documents under development stages.

d) Contributions made in the activities of ISO/TC 45 and/or other relevant fields including participation in the past meetings.

e) Familiarity with the rules and procedures of business transacted in the ISO meeting;

f) Willingness to be part of the Indian delegation and work within the brief agreed to.

Accordingly, following requests for Nomination in Indian Delegation for participation in ISO/TC 45 Meetings have been received :

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **Name** | **Organization** |
|  | Dr. K. Rajkumar | Indian Rubber Manufacturers Research Association |
|  | Dr. Bharat Kapgate | Indian Rubber Manufacturers Research Association |
|  | Dr. Ranjit K Matthan | In personal capacity |
|  | Sh. Srikanth Krishnamurthy | All India Rubber Industries Association |
|  | Sh. Chinmoy Ray | All India Rubber Industries Association |
|  | Sh. Philip C. Jacob | Association of Planters of Kerala |
|  | Sh. Santosh Kumar | United Planters Association of Southern India |
|  | Sh. Satish Abraham | Association of Latex Producers of India |
|  | Shri Kalyan Das | GRP Limited, Mumbai |
|  | Mr. K M Ravi | GRP Limited, Mumbai |
| 11. | Sh. Rajat Gupta | BIS |

*The Committee may* ***CONSIDER.***

**ITEM 9 STANDARDS NATIONAL ACTION PLAN**

The Bureau of Indian Standards (BIS) Act of 2016 has positioned BIS in its unique leadership position as the National Standards Body (NSB) of India. The Act has cast upon BIS humongous task of leading the ‘Standards’ work in India through multiple potential partners available in the quality space. In order to effectively perform its responsibility as the NSB of India, the Standards National Action Plan (SNAP) 2022 has been evolved.

BIS has undertaken extensive stakeholder consultations involving policy makers, academia, industry, industry associations, Research and Development institutes, government bodies, etc. to develop this action plan. Due consideration has also been accorded to government policies and priorities. To prioritize the standardization work on the identified subjects/ topics of standards development, an assessment of national socio-economic requirements was made through a process of secondary research against the ISO guidelines available in this regard.

The action plan proposes a set of actions that would enable BIS to fulfill the specific objectives, and drive the national standardization work and participation in international standardization work. The actionable points emanating from the study as provided in the document are expected to help meet the objectives of making standardization processes efficient and fast, increase awareness and implementation of standards, increasing participation and involvement in national and international standardization and ensure harmonious standardization activities in the country. The action plan has prioritized standardization issues that would be the key to future standardization.

During the 34th meeting of PCD 13, the committee DECIDED as follows on each Key Standardization Areas in the field of Rubber and Rubber Products Identified under SNAP 2022-2027:

|  |  |  |
| --- | --- | --- |
| **Subjects under SNAP 2022-2027** | **Decision of the Committee in 34th meeting** | **Remarks** |
| 1. Safe handling practices for rubber materials | The Committee DECIDED to create a Panel for formulation of guideline standard on Safe handling practices for rubber materials and requested members to submit their expression of interest to participate in this panel. | Inputs awaited. |
| 1. Guidelines/ protocols/ good practices for packing, storing and handling of cup limp | The Committee NOTED the information that this subject was dropped in 33rd meeting of PCD 13 sectional committee. | Dropped. |
| 1. Raw materials and identification of hazardous substances | The Committee NOTED that this subject is taken up under ‘GRAS (Generally Recognized as Safe)/GNRAS (Generally Not Recognized as Safe) of Rubber compounding additives and chemicals’. (*see item 3.4*) | Action taken. |
| 1. EOLT (End of Life Tyres) | The Committee DECIDED to transfer this subject to TED 07 : Automotive Tyres, Tubes and Rims Sectional Committee. | Action Taken. |
| 1. Recovered Carbon Black | The Committee NOTED that this subject is already taken up in Panel 11. | Action Taken. |
| 1. White/ Latex Reclaimed Rubber | The Committee DECIDED to create a Panel for formulation of standards on White/ Latex Reclaimed Rubber under the convenorship of Dr. Siby Varghese. The committee also requested members to submit their expression of interest to participate in this panel. | Inputs awaited. |
| 1. Characterization of Polymer Bound Rubber Chemicals | The Committee DECIDED that this subject shall be taken as a research project. During the meeting, Dr. Rajkumar informed the committee that this subject can be dealt by IRMRA, Rubber Board and CSIR Labs. | Inputs awaited. |

*The committee may* ***CONSIDER.***

**ITEM 10 ANY OTHER BUSINESS**

**ITEM 11 DATE AND PLACE FOR THE NEXT MEETING**