



ORGANIZZAZIONE INTERNAZIONALE TRASPORTI A FUNE
INTERNATIONALE ORGANISATION FÜR DAS SEILBAHNWESEN
ORGANISATION INTERNATIONALE DES TRANSPORTS A CÂBLES
INTERNATIONAL ORGANISATION FOR TRANSPORTATION BY ROPE
ORGANISACION INTERNACIONAL DE TRANSPORTES POR CABLE

OITAF NEWS

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O.I.T.A.F.-NEWS 1/2005

Dear reader

This is the last time I have the pleasure to write the President's preface of the **O.I.T.A.F.-NEWS** and to address O.I.T.A.F. members and NEWS readers in my quality as President of O.I.T.A.F. After six years, and hence two terms of office as head of our international organisation I am going to hand in to the forthcoming General Assembly my resignation as member of the Management Committee. This is why I wish to avail myself of this opportunity to thank all members and readers who have shown unswerving loyalty to O.I.T.A.F., thank them most heartily for their interest, their contributions and support they have given to the development of a worldwide institution which unites in a comprehensive whole all branches of activity related to the ropeway profession and technology. But first of all I wish to express my special thanks to our most deserving Secretary General who has been looking in an exemplary way after the fortunes of our organisation, Dr. eng. Heinrich Brugger, express thanks to all members of the Management Committee to whose purposeful and valuable contributions we owe the success of our efforts and the success of O.I.T.A.F. I also wish to express warm thanks to the chairmen and members of O.I.T.A.F. committees whose commitment to the objectives I have set myself at the beginning of my presidency has been determinant for the success and has permitted O.I.T.A.F. to publish recommendations and position papers which may be used by O.I.T.A.F. members as guidance documents for the decisions they have to take.

By now we are almost at the eve of a great and important event of our organisation i.e. the worldwide international conference 2005 in Innsbruck. The papers to be presented and the debates are expected to show the likely future development trends of the ropeway technology and industry, the likely future importance of ropeways as proactive factor of economy and prime mover of tourism. I do hope that the v-

sionary representation of likely future trends and orientations will meet your approval and that the lectures presented by famous lecturers will stimulate your imagination. I am also confident that you will appreciate the rich social programme of the conference and the Tyrolean hospitality.

I am looking forward to meeting you at the conference. To all readers I wish the best for a rewarding professional life and a sunny private life. To the new President of O.I.T.A.F. I wish a successful term of office and rewarding fulfilment of his responsibilities.

Sincerely yours
Horst Kùhschelm

Secretary General's commentary

Next to the activities of O.I.T.A.F. committees the organisation of the forthcoming international conference 2005 in Innsbruck and the organisation of the meeting of the enlarged Executive Committee in Rio de Janeiro (Brazil) took most of the organisation's time in the last six months. As to the meeting in Rio you will find a detailed report further down.

The Official Journal of the European Union formally announced the publication of CEN standards relating to „safety requirements for cableway installations designed to carry persons" i.e. the set of 13 standards produced by the CEN Technical Committee 242 and its working groups. For further details see further down

In his preface the President of O.I.T.A.F. has announced that he is going to hand in his resignation and no longer stand in for the election of the new Management Committee at the forthcoming General Assembly. For six years he has run with great success the affairs of our organisation and has accepted to organise the worldwide international O.I.T.A.F. conference to be held next September in Innsbruck. A detailed report on the international conference will be published in the next issue of **O.I.T.A.F.-NEWS**.

ACTIVITIES OF THE ORGANISATION

The Management Committee

The Management Committee met last on May 13, 2005 in Barcelona. At that meeting, which was the committee's 107th meeting, the committee addressed and took decisions on the following issues.

The main issue addressed at the last meeting of the Management Committee were the arrangements to be made for the forthcoming international conference and the meeting of the General Assembly and the list of candidates for the election of the new Management Committee.

The meeting was also given a detailed report on the meeting of the enlarged Executive Committee in Rio de Janeiro and the constitution of a Latin American continental section of O.I.T.A.F.

At their meeting in Barcelona the Management Committee addressed in particular the following issues:

1. Organisation of the 9th International Congress on Transportation by Rope in Innsbruck, Cf enclosed brochure and registration form
2. Budget estimate for the period 2006 – 2008 to be submitted to the approval of the General Assembly. The Management Committee approved the budget estimate and hence also the financial framework for O.I.T.A.F.'s future activities.
3. Amendments to the statute, and in particular amendments to art. 14 of the statute on membership fees. The Management Committee agreed to propose the amendment of art. 14 seen that the last decision to adjust fees to the monetary devaluation dates back to 1999. The Management Committee further agreed to amend art 3 so as to open membership to "notified bodies" to whom the EU Directive entrusts the responsibility for conformity assessments. Notified bodies are to be admitted as category D members.
4. Reports and discussion of recommendations and documents produced by O.I.T.A.F. committee 6 and the working

group on „Non public ropeways – Material handling ropeways" i.e.

- Construction and operation of material handling ropeways and cable cranes
- Fire prevention and control : instructions for operation and maintenance
- Remote control of ropeway installations

For detailed information on the progress of these recommendations and documents see special item on the activity of O.I.T.A.F. committees and working groups.

Executive Committee: Meeting in Rio de Janeiro, Brazil

A meeting of the Executive Committee attended by two members of the Management Committee was held on April 18 and 19, 2005 at the Hotel Excelsior Copacabana in Rio de Janeiro



Opening session of the meeting in Rio from left to right: the general secretary of O.I.T.A.F. Heinrich Brugger, the first vicepresident of O.I.T.A.F. Jean Charles Simiand, the president of O.I.T.A.F. Horst Kùhschelm and Mrs. Maria Ercilia Leite de Castro, president of Companhia Caminho Aéreo des Pão de Açúcar

The scope of the meeting was the establishment of closer contacts with Latin American countries, provide them with information about O.I.T.A.F., discuss with them the constitution of a Latin American continental section of O.I.T.A.F., exchange information, in particular information about the economy and development trends of the ropeway industry in Latin America and in Europe in the past and likely development in the future, areas of future collaboration, the EU Directive 2000/9EC of the European Parliament and the European Council, dated March 20, 2000, relating to cableway installations designed to carry

persons, as well as information on standards on "Safety requirements for cableway installations designed to carry persons" produced by CEN Technical Committee 242, and last but not least, discuss the proposal to organize the next worldwide international O.I.T.A.F. congress on transportation by rope in Rio de Janeiro



the audience

The meeting has been organised by the President of the O.I.T.A.F. member the Companhia Caminho Aéreo des Pão de Açúcar, Mrs. Maria Ercília Leite de Castro, and its technical director, Mr. Giuseppe Pellegrini, and has been indeed a perfectly organised event, attended by representatives of ropeway operators, ropeway manufacturers and authorities responsible for tourism or having competence for matters related to the ropeway industry, as well as representative of standards institutes representing the following countries: Brazil, Venezuela, Chile and Argentina. The programme of the first day of the meeting included a presentation of O.I.T.A.F., an exchange of information on the economy and development trends of the Latin American and European ropeway industry in the past and likely trends in the future, a presentation of the EU Directive and CEN standards as well as an exchange of views on suggested areas of future collaboration.



Giuseppe Pellegrini, director of Companhia Caminho Aéreo des Pão de Açúcar

On the second day participants exchanged views on the proposal to constitute a Latin American continental section of O.I.T.A.F. Great interest was shown by Latin American representatives, while O.I.T.A.F. representatives offered to help within the limits of their possibilities. Participants agreed that the initiative must be taken by the directly interested parties, i.e. ropeway operators and manufacturers, as well as competent authorities and institutes of Latin American countries and the Companhia Caminho Aéreo des Pão de Açúcar offered to get in touch with and develop contacts with all interested parties.



Participants in front of the sugar Loaf aerial ropeway

After this exchange of views participants were given detailed information about the International Conference on Transportation by Rope 2005 in Innsbruck. Last but not least the Director of the Brazilian Office for Tourism made a presentation of Rio de Janeiro as likely place of venue of the international conference 2011.

Hence drawing our conclusions we are convinced that the meeting of the enlarged Executive Committee in Rio de Janeiro with representatives of the Latin American ropeway industry and other interested parties has been a success

Organisation of the 9th Worldwide Congress on Transportation by Rope

The General Organisation Committee met three times in 2005 and has approved the detailed programme of the conference while the local organising committee met at least once every month to take the decisions that were felt to be necessary.



The local Organisations Committee

The enclosed brochure with the programme of the working sessions and the evening programme is the result of the General Organisation and local organisation committees' work and discussion..

Take advantage of this year's international event to attend a conference on future development trends of the ropeway industry which for that very reason will address issues of topical interest for all concerned, be they ropeway, ski-run travel and tourism operators.

Recommendations and documents produced by O.I.T.A.F. committees

1. Recommendations for the construction and operation of material handling ropeways, cable cranes and funiculars

The working group on „Non-public ropeways set up by O.I.T.A.F. committee 1, chaired by Dr. eng. Achille Bonini, has completed the revised version of the O.I.T.A.F bulletin n° 8 _ Technical Rec-

ommendations for the Construction and Operation of Material Handling Ropeways and Cable Cranes. The revised recommendations are available in three language versions, i.e. Italian, German and French and will be submitted to the approval of the Management Committee at the committee's meeting on September 26.

2. Chairlift Transportation of Children

The special working group chaired by J.L. Pettex has completed its draft Recommendations relating to the transportation of children less than 1,25 m in height. There is however several questions regarding the legal status that still needs to be settled.

3. Fire prevention and control : instructions for operation and maintenance of ropeway installations

Recommendations for fire prevention instructions for the operation and maintenance of ropeway installations produced by O.I.T.A.F. committee 6 will be submitted to the approval of the Management Committee at the committee's meeting on September 26.

4. Remote Control of ropeway installations

O.I.T.A.F. committee 6 have in mind to discuss once the first version of their draft recommendation for the remote control of ropeway installations

INTERNATIONAL INFORMATION

EU Directive and CEN standards

Titles and reference of CEN standards for "Safety requirements for ropeway installations designed to carry persons" listed below have been published in the Official Journal of the European Union dated April 26, 2005 (C100/30)

Hence under the provisions of the Directive 2000/9/EC of the European Parliament and the European Council relating to cableway installations designed to carry persons dated March 20, 2000 the following standards have acquired the status of harmonized standards.

ACTIVITIES OF O.I.T.A.F. WORK COMMITTEES

WORK COMMITTEE N° 1: Technique of ropeways and technical recommendations

Chairman : Dipl. Ing. Dr. Peter Sedivy, Bundesministerium für Verkehr, Innovation und Technologie. (Austrian Federal Ministry for Transports, Innovation and Technology)

The committee met twice in the first half of the year 2005. The first meeting was held on March 8 and 9 in Bolzano (Italy) and the second on May 2 and 3 in Helsinki (FIN). At these meetings the committee continue their discussion of their draft recommendations and the definition of hazardous scenari associated with components of unidirectional aerial ropeways which ought to be analysed in a safety analysis of unidirectional aerial ropeways. Contents of the recommendation and progress of the committee's work

Preface

I. Introduction

II. Ropeway systems

III. Hazardous scenari

IV. Safety study

In a safety analysis due consideration has to be given to all hazardous scenari that might be brought about by the following components of the ropeway

1. Ropes and end fixings (done)
 - 1.1 Ropes (done)
2. Drives and brakes (yet to be discussed)
3. Mechanical equipment
 - 3.1 tensioning devices (done)
 - 3.2 mechanical equipment of terminals (yet to be discussed)
 - 3.3 mechanical equipment of line structures (done)
 - 3.4 passenger loading band (done)
4. Carriers (done)
 - 4.1 Gondola (done)
 - 4.2 Chair (done)
 - 4.3 Suspension (done)
 - 4.4 carrier truck (dealt with but not completed)
 - 4.5 Rope end fixings (yet to be discussed)
5. Electric equipment (has not been and will not be dealt with)

- 5.1 Monitoring, control and safety devices
- 5.2 Communication and information equipment
- 5.3 Lightning protection equipment
6. Rescue equipment (done)
7. Line structures (done)
8. Dedicated equipment of ropeway terminals (yet to be discussed)
9. Embarking and disembarking facilities (access, way out) (yet to be discussed).

The document listing the hazardous scenari so far discussed comprises 50 pages.

It has been agreed to hold the next meeting of the committee on September 19 and 20, 2005. So far the place of venue has not yet been agreed.

Working group set up by Committee 1:

Non public ropeways : Material handling ropeways and cable cranes

Convener of the working group : Dr. Ing. Achille Bonini, Rome

The working group have completed their mission. Their draft recommendation will be submitted to the final approval of the Management Committee.

WORK COMMITTEE N° 2: Characteristics and inspection of ropes

Chairman : Laurent Reynaud, STRMTG – Supervisory Authority (F)

The Chairman sent us the following report
Commission 2 had a meeting on January, 27th and 28th 2005 in Crolles (France) with the presence of:

M. Reynaud (chairman), M. Traxl (Teufelberger), M. Dubuisson (STRMTG), M. Amiet (OFT), M. Oplatka, M. Kopanakis, M. Hanimann (Fatzer), M. Bertillot (Trefileurope), M. Andorfer (Schupfer notified body), M. Norberg (DNV), M. Bonifat (POMA), M. Clerici (Redaelli), M. Paglia (Redaelli), M. Bonini, M. Degasperi (LATIF), M. Pedrotti (LATIF), M. Halec (Halec SA), M. Martinet (Halec SA), Mme Schönherr (IFT Stuttgart).

1. Study on the accuracy of magneto-scopic testing:

Two discarded locked-coil ropes of 10 meters each had been chosen in 2001 to carry out several magnetic tests before

eventually opening them. The following companies have taken part to the tests: Halec SA (F), Norisko (F), LATIF (I), Teufelberger (A), TVFA Wien (A), IWM (CH), IFT Stuttgart (D). The study has been financed by OITAF (transportation cost in Europe in 2003 and 2004), while the participants carried out the tests at their own expenses. All data about the ropes were available. Testers had the possibility to carry out the test as they wished.

TVFA Vienna did not communicate its results. IWM did, but did not want them to be public

For time reasons, only one of the two ropes could be opened. It was opened with the kind help of HALEC SA. For this rope, the tests gave 1 external wire break and between 0 to 4 internal breaks. The opening of the rope revealed 10 internal breaks in one section, and 15 internal breaks in all.

Half a day was spared to open the rope and discuss the discrepancy between the test results and reality. You may request the detailed report to the chairman.

The main lesson of this study is that it is difficult to diagnose the number of wire breaks in a locked coil rope with a reasonable accuracy. Yet the study does not put into question the interest of magnetic diagnostic as a help for decision making. Surely an important element, but not the only one (visual inspection on site, operator's observations, etc.).

The opening of the second rope has been carried out without the commission. A detailed report is also available.

2. Overhead power line crossings over ropeways

M. Degasperri (LATIF) presented the study carried out by LATIF and other Italian partners regarding the overhead power line crossings over ropeways. After a theoretical analysis, a wide range of experimental tests was carried out and allowed to build a reference library depending on several parameters. It is then possible to predict the expected damage after an

electrical arc stroke a rope on a ropeway. See also the article in ISR 2004.

3. CE Marking of ropes and subsystems

After directive 2000/9/CE, the documents required and sufficient to put on the European market a rope are the following: the EC declaration of conformity of the manufacturer, the EC certificate of the notified body, the test certificate including all information's listed in EN12385-1, -4, -8, -9, the manual of use and the description of admissible interfaces.

Member states may no more have national rules about design or manufacturing of ropes. They must, however, keep on having national rules for infrastructure, general design of the line, operation and maintenance. National rules may never counter free circulation of products complying with the CEN/TC242 standards.

The EC evaluation may be dedicated to a single rope (module G) or be given for a certain time (for instance 3 or 5 years).

Ropes and rope ends subsystems may be EC declared by a rope manufacturer or a ropeway manufacturer. In any case, the EC examination includes the implementation of the rope and tensioning.

It has been agreed to hold the next meeting on September 26, 2005 in Innsbruck

WORK COMMITTEE N° 3: Electrical equipment and components of ropeway installations.

Chairman : Dipl. Ing. Fredy Lang, Federal Office for Transports, Switzerland.

The Committee's 53rd meeting was held in Albertville (F) from April 12 to 14, 2005

The meeting addressed the following issues

- Progress report on CEN standards
- Exchange of information on accidents and disorders due to the electrical equipment of ropeways
- Discussion of the committee's views on the recommendation relating to fire prevention and control: instructions for operation and maintenance of ropeway installations and the recommendation for the construction and operation of

material handling ropeways and cable cranes

- Application of the Directive 2000/9/EC eng. Laurent Reynaud, who has been invited to attend the meeting as the committee's guest made a detailed presentation of the application of the EU Directive to the electric equipment.

It has been agreed to hold the next meeting of the committee from September 21 to 23 at Rust (Germany)

WORK COMMITTEE N° 4: legal, administrative, economic and statistical matters
Chairman : Dr. Horst Kühschelm, Bundesministerium für Verkehr, Innovation und Technologie (Federal Ministry for Transport, Innovation and Technology, Austria)

The 56th meeting of committee 4 was held in Barcelona on May 11 and 12, 2005.

The main subjects addressed by the meeting were the following ones.

1. Transposition of the EU Directive relating to cableway installations designed to carry persons

One year ago the EU Directive has become effective and all EU member countries were bound to apply it. In the meantime they have been able to see how the Directive works and see the problems of its application, in particular, application in the case of new projects or retrofitting of existing installations. At their last meeting members of the committee agreed to consider problems related to the transposition of the EU Directive as a permanent item of the agenda of the committee's future meetings.

Members have also agreed on the necessity to discuss in particular legal problems arising from the application of the EU Directive and submit to the European Commission a joint position of all involved parties. It is hence important to get the collaboration of representatives of the authorities who have the necessary knowledge of legal problems of the EU. The regular and permanent exchange of information is deemed to be necessary to make sure that all will stick to the agreed uniform line of action.

At their last meeting members exchanged views on the position of spare parts and problems involved by existing ropeways that are dismantled and assembled again on another site, as well as the delimitation of the competence and responsibilities of the author of the safety report, of the ropeway manufacturer and ropeway operator. An inventory of questions has been drawn up and members intend to refer to it as their working paper at their future meetings. The questions listed therein so far are the following ones

- Delimitation of responsibility and liability
- Criteria for assessing „the state of the art“ and consequences
- Application of the EU Directive to existing ropeway installations
- Function and responsibility of authors of safety reports
- market surveillance of surveillance authorities
- Legal position of summer toboggan runs

2. Transportation of children

The working group on transportation of children composed of members of committee 4 and members of committee 6 has laid down the conditions applicable to transportation of children (age and height of children, accompanying person, maximum number of children that may be accompanied by one person). The working group was chaired by J.L. Pettex, Director of the company Compagnie des Alpes.

This new draft of conditions ruling transportation of children has been examined at the last meeting of the Executive Committee. Objections were raised by France because the document was deemed to be in contrast with the pertinent French act on transportation. This is why it was agreed to call another meeting of the joint working group.

3. Statistical survey of ropeway installations

J.L. Pettex has accepted to compile a special statistical survey of ropeway instal-

lations covering both technical data as well as , to the extent it was possible to get the necessary response, data showing the numbers of passengers and of transports carried out. However it should be rather difficult to get all necessary data because only very few countries are in the position to supply the necessary information.

The next meeting of committee 4 will take place on October 13th 14, 2005 in Graz.

WORKING GROUP set up by

committee 4: Environment Forum

Convener of the working group: Techn. Rat Dipl. Ing. Michael Manhart, Lech am Arlberg

The convener sent us the following report
In the first days of February the working group met in Vienna.

The main subject addressed at that meeting was the problem of "Soil stability and soil erosion in the Alps". An introduction to this subject matter has been presented by Univ. Prof. Dr. Franz Solar.. He pointed out that the desire to preserve mankind requires everybody's commitment to finding out the causes of soil erosion, identify phenomena that affect the stability of soil, abate forces that sometimes develop a tremendous potential of destruction and deviate them towards a less dangerous outlet. This objective may be achieved by purposeful measures to preserve the stability of the soil. Prof. Solar illustrated in particular the measures that can be taken to prevent the type of erosion which is typical for and frequent in ski areas. Ground frost and water are the two driving forces of erosion. Freezing and the resulting erosion of the soil may be prevented by appropriate measures, for instance a blanket of natural or artificial snow high enough, to adequately protect the soil against frost penetration and/or properly erected snow fences. Dormant water may also give rise to erosion in that it may lead to over saturation of the soil and hence rock shattering. Over saturation may be prevented by adding soil stabilizers and root fertilizers to the soil and increasing the infiltration capacity of the soil. Erosion due to running water may arise if the quantity of rain falling and running on the soil's surface exceeds the infiltration ca-

capacity of the soil. Washout, erosion behind a broken dam, small-groove erosion, land slip are the likely consequences thereof. Appropriate stratification of the different layers of soil, drainage, purposeful discharge of surface water and planting of a stabilising vegetation are the measures that can be taken to prevent this type of erosion. In this context it should be recalled that artificial snow develops a soil pressure of approx. 3 t/m² yet does not trigger out land slips, but may trigger out slush avalanches. The extent of heavy rain infiltration may be reduced by piling up heaps of snow or layers of artificial snow (water retention capacity). It will thus be seen that snow does not give rise to additional problems.

Referring to a number of examples the meeting further addressed the problem of eco-auditing of ski areas and compensating measures. The working group resolved to draft a recommendation

As to „Snomax“ it should be mentioned that Mrs Françoise Dinger has written an excellent report on the results of French and Italian investigations. It has been agreed to refer to this report in the inventory of questions which is being drawn up by the Environment Forum.

Mid June 2005 the working group will meet in Brixen im Thale / Tyrol (A) to draft abridged versions of papers on some subjects that have so far been dealt with by the Environment Forum, assign work on new subjects and complete the list of subjects which have been dealt with. The abridged versions will be released for publication by O.I.T.A.F. after prior approval of the Management Committee.

The main item on the agenda of the meeting in Brixen im Thale are storage ponds, the presentation of examples and exchange of views on storage ponds.

WORK COMMITTEE N°VI: Optimization of the Operation of Ropeways

Chairman: Ing. Francis Crouzet

F. Crouzet sent us the following report:

In the first half year of 2005 committee 6 met twice. I.e.

- on January 27 and 28 in Berne, and
- on June 7 and 8 in Turin

No further meeting will be held in 2005 in order to permit members to attend the international conference in Innsbruck

At their last two meetings the committee examined and has given due consideration to comments made by other O.I.T.A.F. committees and has completed the revision of the draft recommendation on « Remote control ». The committee also made a choice of subjects to be addressed at future meetings, i.e.

- 1) Vertical evacuation methods and equipment
- 2) Applications of ropeway installations requiring special operating conditions (i.e. transportation of disabled and injured persons, transportation of children, as well as handling of mountain bikes, deltaplanes, toboggans, bulky items and similar)
- 3) Operation in adverse weather conditions

The committee have already started the discussion of item 1 but has then decided to postpone it till the time the results of a research project (which is at present being carried out in Germany on the initiative of HVBG and BG Bergbahnen (Mountain railways committee on social and safety questions) will be made available, i.e. most likely in July 2006)

Hence the committee agreed to tackle item 2. Work on this issue is already in progress.

Several members of the committee have also attended meetings that were held by the joint working group on transportation of children with a view to finalizing their draft recommendation.

FUTURE EVENTS

Meetings of O.I.T.A.F. bodies (to the extent the date has already been agreed)

O.I.T.A.F. International Congress: 26-09.-01.10.05 Innsbruck (A)

General Assembly: 26.09.05, Innsbruck (A)

Management Committee: 26.09.05, Innsbruck (A)

Executive Committee: date not yet agreed

Committee n° 1: 19.20.09.05, place of venue yet to be decided

Committee n° 2: 29.09.05, Innsbruck (A)

Committee n° 3: 21-23.09.05, Rust (D)

Committee n° 4: 13-14.10.05 in Graz (A)

Working group

Environment Forum : yet to be agreed

Committee n° 6: 26-27.01.2006 in Bregenz or Vienna (A)

08-09-06 in Spain

September 2006 in Germany

O.I.T.A.F. in INTERNET.

Retrieval of files a facility offered only to O.I.T.A.F. members

O.I.T.A.F. members can now load down directly O.I.T.A.F. *Technical Recommendations* and papers produced by O.I.T.A.F. committees in past years. Have a try. You may now load down any time the last issue of **O.I.T.A.F.-NEWS**. All you need to do is to enter the password which has been posted to you.

General Information

Access to the German, English, French, Italian, Russian, Chinese and Japanese version of the O.I.T.A.F. website is obtained by entering the address <http://www.oitaf.org>. The website provides the following information

- What is O.I.T.A.F. all about ?
- Structure of O.I.T.A.F.
- O.I.T.A.F. statute
- Activities of O.I.T.A.F.
- NEWS and other information about O.I.T.A.F.
- **O.I.T.A.F.-NEWS**
- O.I.T.A.F. bodies and their members
- O.I.T.A.F. committees
- Technical Recommendations, papers and statically surveys produced by O.I.T.A.F.
- Lectures delivered to O.I.T.A.F. seminars
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For further information use e-mail address info@oitaf.org

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O.I.T.A.F. Secretariat

Ufficio Trasporti funiviari

via Crispi 10

I-39100 BOLZANO

phone: ++39-0471-414600 Fax ++39-0471-414616

e-mail: [H.Brugger @provinz.bz.it](mailto:H.Brugger@provinz.bz.it) or

info@oitaf.org

If not otherwise specified, text and layout by the Secretary General of O.I.T.A.F.