



# MAINTENANCE

## of sport playgrounds with natural grass

**International seminar and workshop**

**Kranj, Slovenija, 12 March 2019**

**R E P O R T**

International Association of Sport and Leisure Infrastructure Management  
La Asociación internacional de administración de infraestructura deportiva y recreativa  
Международная Ассоциация управляющих инфраструктурой спорта и досуга  
Associação internacional de gestão das instalações de esporte e lazer  
Međunarodno udruženje upravljača infrastrukturom za sport i slobodno vreme  
Mednarodno združenje upravljavcev infrastrukture za šport in prosti čas  
Slovenski trg 5, 4000 Kranj, Slovenia ♦ T +386 41 393 101 ♦ F +386 1 300 7047  
[info@iaslim.org](mailto:info@iaslim.org) ♦ [www.iaslim.org](http://www.iaslim.org)

# IASLIM

International Association of Sport and Leisure Infrastructure Management



The International Association of Sport and Leisure Infrastructure Management, in cooperation with partners: JGZ Brdo Protocol services, Green Engineering Ljubljana, Indigrow Ltd, AB d.o.o., experts and advisers of FIFA and UEFA, prepared the seminar and workshop for directors and managers of maintenance of sports centers, for stadiums and playgrounds covered with natural grass.

## Contents of the seminar and workshop

- **Standards of management and maintenance of playgrounds covered with natural grass.**

**Jože Jenšterle**, Secretary General of IASLIM.

- **Basic maintenance of football pitches with good playing surface**

**Uroš Zvonc**, Manager of Green Engineering Ljubljana.

- **Preparation of football pitches for the international competitions**

**Ian Craig**, FIFA Advisor for World Championships in Brazil 2014 and Russia 2018, UEFA Champions League and UEFA Euro 2020.

- **OneShot - the state-of-the-art products for maintenance of playgrounds covered with natural grass**

**Richard Posskit**, Manager of the firm Indigrow Ltd. UK.

- **Machinery for maintaining natural and hybrid grass surfaces**

**Jure Božič**, Director of the firm AB d.o.o.

- **Workshop: How to prepare the playground with natural grass?**

**Ian Craig, Richard Posskit, Uros Zvonc, Jure Božič and Jože Jenšterle.**



IASLIM



## Participants

- **Ian Craig**, FIFA Advisor for World Championships in Brazil 2014 and Russia 2018, UEFA Champions League and UEFA Euro 2020. United Kingdom
- **Almin Gorinjac**, Director of The Public Institution for Sport Jesenice, Slovenija
- **dr.sc. Marcel Vučetić**, Manager of The Public Institution Sport Center Kutina, Croatia
- **Branko Bogićević**, Director of The Public Company for maintenance and usage of sport facilities „Veliki Park“ Užice, Serbia
- **Miodrag Novosel**, Director of The Public Company EKOM d.o.o. Čakovec, Croatia
- **Richard Posskit**, Manager of the firm Indigrow Ltd. United Kingdom
- **Nikola Smilanić**, Manager of The Sport Center Čajetina Zlatibor, Serbia
- **Dušan Zalokar**, Deputy Head of maintenance of The Public Company ZPO Celje d.o.o., Slovenija
- **Alan Lindsay**, Manager of The Sportsturf Maintenance Company, United Kingdom
- **Damir Barić**, The Public Company EKOM d.o.o. Čakovec, Croatia
- **Urh Vrenjak**, Head of maintenance, The Public Institution for sport and recreation Domžale, Slovenija
- **Goran Zdravković**, Manager of Sport Center Čajetina, Serbia
- **Čović Nebojša**, bacc.ing.sec., Manager of The Sport Center Kutina, Croatia
- **Igor Benčić**, Head of maintenance, The Public Institution »Sport Center Kutina, Croatia
- **Borut Marošek**, Advisor for sport, The Public Institution for Sport Slovenj Gradec, Slovenija
- **Mateja Grobin Hlavaty**, Manager of The Company Metrob d.o.o. Ljubčna, Slovenija
- **Tatjana Janežič**, Business Secretary of IASLIM, Slovenija
- **Tomaž Žvan**, Head of maintenance, The Public Institution for Sport Jesenice, Slovenija
- **Jože Jenšterle**, Secretary General of IASLIM, Slovenija
- **Uroš Zvonc**, Manager of Green Engineering Ljubljana, Slovenija
- **Jure Božič**, Director of the firm AB d.o.o. Žirovnica, Slovenija.





## Topic 1

- **Standards of management and maintenance of playgrounds covered with natural grass.**

**Jože Jenšterle**, Secretary General of IASLIM.

- The new development paradigm of physical culture and health.
- Goals of physical activity for healthy life.
- Standards of physical activity, sport and infrastructure.
- Regulations of physical activity, sport and infrastructure.
- Standards / Sustainable development / Programs and services / Infrastructure / management / Human resources / Financing.
- Fields of standardization.
- Environment and society.
- Management.
- Programs.
- Infrastructure.
- Human resources.
- Financing.
- Big football pitch with natural grass.
- Strategic Partnerships.
- Economic Growth and jobs.
- Standard's usage.





## Topic 2

- **Basic maintenance of football pitches with good playing surface**

**Uroš Zvonc**, Manager of Green Engineering Ljubljana.

- What are the basics of quality natural grass surface?
- How to start with growing natural grass surface?
- Assessment of present status of the surface / playground.
- Visual quality.
- Uniformity.
- Density.
- Texture.
- Type of growth.
- Smoothness.
- Color.
- Functional quality.
- Rigidity
- Elasticity
- Resiliency
- Verdure. Clippings after mowing.
- Rooting.
- Ability to strengthen.
- Grass observation.
- Environment.
- Playground history.
- Mechanization
- Maintenance plan.





## Topic 3

- **Preparation of football pitches for the international competitions**

**Ian Craig**, FIFA Advisor for World Championships in Brazil 2014 and Russia 2018, UEFA Champions League and UEFA Euro 2020.

- Reports of stadiums and football pitches management and maintenance at international competitions:
  - FIFA World Cup in Brasil 2014,
  - Confederation Cup Russia 2017,
  - FIFA World Cup Russia 2018,
  - Africa Cup of Nations in Equatorial Guinea 2015,
  - Africa Cup of Nations in Gabon 2017 and
  - UEFA EURO 2020.
- Raising the Bar: quality and consistency.
- How do we ensure consistency?
- Performance testing.
- Machinery requirements.
- Machinery for day to day maintenance.
- Machinery for medium term maintenance.
- Machinery for long term maintenance.
- Divoting & post match repair.





## Topic 4

- **OneShot - the state-of-the-art products for maintenance of playgrounds covered with natural grass**

**Richard Posskit**, Manager of the firm Indigrow Ltd. UK.

- Overview of the products for maintenance of playgrounds covered with natural grass.
- Products: Magnum 44, Compass BioActive, Turbine Reaction, Fusion Tracer, Solar ProActive, HumiK, Optik Blue and Optik Isolator.
- Magnum 44. Water drop penetration test.
- Compass BioActive.
- Classical extraction. Cold extraction.
- Tests. Analytical data.
- Impact Humate Liquid.
- Turbine Amino One Shot. Plant stress. Anti stress effect.
- Solar Pro-active.
- Phosphite concentrate.
- Fusion Tracer Liquid.
- Optik Isolator Liquid.
- Humik NPK One Shot.
- Impact Plus Specifications.
- What is the »Asset«?
- Trials. Ground cover. Vigour. Hight cm. NDVI readings. Root Density Wk 21.





## Topic 5

- **Machinery for maintaining natural and hybrid grass surfaces**

**Jure Božič**, Director of the firm AB d.o.o.

- Overview of the machines and equipment for maintaining natural and hybrid grass surfaces:
- Redexim The Carrier
- Verti-Drain
- Turf Cutter
- Rink 1010
- Rink DS550
- Verti-Cut 1300
- Precision Brush
- Level Spike
- Dew Brush
- Dennis G860
- Cassettes
- Assessories
- Dennis Premier.





## Topic 6

- **Workshop: How to prepare the playground with natural grass?**

Ian Craig, Richard Posskit, Uros Zvonc, Jure Božič and Jože Jenšterle.

- Participants discussed the organization of management and maintenance of the playground with natural grass.
- Lecturers presented examples of good practices in different countries.
- Jože Jenšterle, Secretary General of IASLIM discussed with managers of the Croatian Sport Centers, the possibilities of organizing public institutions and companies, local communities and cities in the Association. Most important task of the association would be development and introduction of standards of sport and leisure infrastructure management.
- Managers of Sport Centers in Serbia have discussed with Secretary the system of professional training for the managers and professionals in the sector of sport infrastructure management.
- Participants of the seminar stressed the importance of professional training and gave an initiative to organize seminars and courses in their countries.





The image is a 6x5 grid of 30 photographs showcasing various sports and recreational facilities. The images are arranged in six rows and five columns, illustrating the diverse offerings of the sports complex. The facilities include outdoor tracks, soccer fields, golf courses, swimming pools, tennis courts, and stadiums, all set in a scenic environment with mountains and lakes in the background. The images are arranged in a grid that highlights the variety of sports and recreational activities available at the complex.

International Association of Sport and Leisure Infrastructure Management  
La Asociación internacional de administración de infraestructura deportiva y recreativa  
Международная Ассоциация управляющих инфраструктурой спорта и досуга  
Associação internacional de gestão das instalações de esporte e lazer  
Međunarodno udruženje upravljača infrastrukturom za sport i slobodno vreme  
Mednarodno združenje upravljavcev infrastrukture za šport in prosti čas  
Slovenski trg 5, 4000 Kranj, Slovenia ♦ T +386 41 393 101 ♦ F +386 1 300 7047  
[info@iaslim.org](mailto:info@iaslim.org) ♦ [www.iaslim.org](http://www.iaslim.org)