



World Federation for Chess Composition
61st Ordinary Meeting (World Congress)
Ohrid, Macedonia, 1st - 8th September 2018

MINUTES

OFFICIAL PARTICIPANTS

Harry Fougiaxis	Greece	President
Hannu Harkola	Finland	1 st Vice-President
Thomas Maeder	Switzerland	3 rd Vice-President
Neal Turner	Finland	Secretary
Luc Palmans	Belgium	Delegate
Zvonimir Hernitz	Croatia	Delegate
Pavel Kameník	Czech Republic	Delegate
Bjørn Enemark	Denmark	Delegate
David Gurgenidze	Georgia	Delegate
bernd ellinghoven	Germany	Delegate
Brian Stephenson	Great Britain	Delegate
Yochanan Afek	Israel	Delegate
Tadashi Wakashima	Japan	Delegate
Julia Vysotska	Latvia	Deputy
Vidmantas Satkus	Lithuania	Delegate
Ivan Denkovski	Macedonia	Deputy
Abdelaziz Onkoud	Morocco	Delegate
Johan de Boer	Netherlands	Delegate
Piotr Górski	Poland	Delegate
Dinu-Ioan Nicula	Romania	Delegate
Andrey Selivanov	Russia	Delegate
Marjan Kovačević	Serbia	Delegate
Peter Gvozdják	Slovakia	Delegate
Marko Klasinc	Slovenia	Delegate
Kjell Widlert	Sweden	Delegate
Valery Kopyl	Ukraine	Delegate
Mike Prcic	United States	Delegate

The following countries were not represented: Argentina, Austria, Azerbaijan, Belarus, Bosnia-Herzegovina, Brazil, Bulgaria, Estonia, France, Hungary, Italy, Kazakhstan, Moldova, Mongolia, and Spain.

Persons who contributed actively included: Zoran Stojcevski and Chess Club Gambit Asseco: Marjan Mitkov, Petar Arnaudov, Natasha Danchevska, Tatyana Povarintzeva, Ljubisha Andonovski, Nebojsa Baralić (organisation), Ivan Denkovski, Axel Steinbrink, Ljubisha Andonovski, Petar Arnaudov, Natasha Danchevska, Ivica Ignatov, Boris Lusheski, Konstantin Lusheski (solving events), Marjan Kovačević, Borislav Gadjanski, Ivan Denkovski, Nikola Stolev, Zlatko Mihajloski, David Shire,

Martin Minski, Marko Klasinc (composing tourneys), Michal Dragoun, Mario Parrinello, Roland Ott (committee or working group members and contributors).

1 Opening Address

The president Harry Fougiaxis opened the meeting and welcomed delegates and observers.

He thanked the Chess Federation of Macedonia and Chess Club "Gambit Asseco SEE" for organizing the congress.

2 Tributes

The assembly stood in memory of the following problemists who passed away during the year:

Jaroslav Pospíšil	Czech Republic	(05.05.1934 - 08.10.2013)
Rudolf Larin	Russia	(27.09.1940 - 27.10.2016)
Henrik Eriksson	Sweden	(19.01.1942 - 27.07.2017)
Helmut Roth	Austria	(27.11.1944 - 16.08.2017)
Olli Välikangas	Finland	(21.02.1933 - 10.09.2017)
Robert Lincoln	United States	(22.12.1937 - 19.10.2017)
Velimir Kalandadze	Georgia	(10.05.1935 - 27.10.2017)
Heinz Curth	Germany	(23.11.1928 - 31.10.2017)
Gerard Bouma	Netherlands	(10.05.1923 - 27.11.2017)
Mikhail Mishko	Ukraine	(09.04.1958 - 01.01.2018)
Eduardo M. Iriarte	Argentina	(??.??.1934 - 03.01.2018)
Wouter J.G. Mees	Netherlands	(06.08.1921 - 25.01.2018)
Newman Guttman	United States	(04.04.1927 - 02.02.2018)
Yury Fokin	Russia	(11.07.1925 - 16.02.2018)
Kauko Väisänen	Finland	(13.06.1933 - 03.03.2018)
Albert Belyavsky	Russia	(24.09.1934 - 01.04.2018)
Imants Dulbergs	Latvia	(06.02.1936 - 14.04.2018)
Vadim Vinokurov	Russia	(30.09.1953 - 07.05.2018)
Ton van Oosterhout	Netherlands	(25.09.1928 - 17.05.2018)
Ignace Vandecasteele	Belgium	(26.10.1926 - 31.05.2018)
Stelian Lamba	Romania	(03.09.1936 - 13.06.2018)
Roger Missiaen	Belgium	(24.03.1925 - 19.06.2018)
Virgil Nestorescu	Romania	(08.02.1929 - 21.06.2018)
László Ányos	Hungary	(25.06.1932 - 23.06.2018)
Dušan Radovanović	Serbia	(21.05.1954 - 04.07.2018)
Eero Saarenheimo	Finland	(21.06.1919 - 16.07.2018)
Bogoljub Trifunović	Serbia	(11.01.1932 - 17.07.2018)
Ronny Weemaes	Belgium	(31.08.1955 - 02.08.2018)
Ignas Vandemeulebroucke	Belgium	(17.04.1934 - 25.08.2018)

3 Verification of Attendance and Voting Rights

24 countries were represented at the beginning of the opening session, and the meeting was declared legal. After the late arrival of further delegates, 26 countries in total attended the meeting.

4 Approval of the Dresden Minutes 2017

The Minutes of the 2017 meeting were approved without amendment.

5 Membership of the Standing Committees

5.1. WCCT: G. Evseev, spokesman

O. Comay, [V. Dyachuk], H. Fougiaxis, V. Kopyl, T. Maeder, K. Widlert

5.2. WCCI: D. Turevsky, spokesman

D. Gurgenidze, Z. Hernitz, [D. Kostadinov], M. Prcic, A. Selivanov, K. Widlert

5.3. Solving: R. Ott, spokesman

M. Kolčák, M. Mladenović, L. Palmans, Vid. Satkus, A. Selivanov, A. Steinbrink, [R. Stelling]

5.4. FIDE Album: H. Fougiaxis, spokesman

[G. Büsing], P. Einat, G. Evseev, P. Gvozdják, [J. Rice], A. Selivanov, K. Widlert

5.5. Qualifications: D.-I. Nicula, spokesman

J. de Boer, B. Enemark, H. Fougiaxis

5.6. Computer Matters: T. Maeder, spokesman

B. Enemark, [I. Ketris], M. Křižovenský, M. Schlosser, [R. Stelling], B. Stephenson, D. Turevsky, J. Vysotska, K. Widlert

5.7. Studies: Y. Afek, spokesman

[I. Aliev], [G. Costeff], D. Gurgenidze, [S. Hornecker], [M. Minski], [O. Pervakov], [J. Roycroft], [H. van der Heijden], M. Van Herck

5.8. Codex: K. Widlert, spokesman

M. Caillaud

5.9. Youth: (new) M. Kovačević, spokesman

P. Einat, D. Gurgenidze, D.-I. Nicula, A. Selivanov, J. Vysotska, T. Wakashima

Absent members of committees are indicated by [brackets].

6 Notification of Proposals and Business carried forward

Discussion of the proposals and topics was allocated to the committees as follows:

- | | |
|---|-------------------|
| – Current progress of the 11 th WCCT, time schedule | WCCT committee |
| – Announcement of the 2016-18 WCCI | WCCI committee |
| – Time schedule of the 2013-15 album publication | Album committee |
| – Announcement of the 2016-18 FIDE album | Album committee |
| – Suggestion of Crişan/Loustau/Parrinello | |
| – change in the FIDE Album judging phase | Album committee |
| – Various suggestions of the solving committee | Solving committee |
| – Suggestion to establish a committee for Youth Chess (by Marjan Kovačević) | |
| Accepted by the Assembly | |

7 Review of the year

7.1 Brian Stephenson reported that the BCPS Centenary meeting in Derby had been a success and that a special Centenary Review was being prepared and would be distributed to members in the near future. Also that parts of the White-Hume collection of problems were in the hands of the BCPS, but that there was a difficulty finding permanent accommodation for it.

7.2 Bjørn Enemark however reported that the Toft Collection had found a permanent home in the Royal Library, Copenhagen - safely stored in 277 acid-free boxes. Unfortunately all attempts to get access to it have been unsuccessful, but there might be a possibility to do some scanning in the coming year.

7.3 Report on the ECSC 2018

With the ECSC 2018 having to be cancelled due to lack of support, an attempt was made to understand the circumstances leading up to this unfortunate outcome.

Andrey Selivanov reported that after a change in personnel at the top of the Russian Chess Federation, a decision was made to move the event from Moscow to Sochi without any consultation. When it became apparent that this sudden change of venue was not popular with the problemist community, a suggestion by Mr Selivanov to shift the event to November was rejected by the RCF.

When asked if it would have been possible to go ahead and organise the championship anyway, he replied the RCF controls all chess activity in the country and it is not possible to organise anything outside their jurisdiction.

Mr Selivanov apologised to all those solvers who were unable to attend.

At the time when a number of countries were announcing their intention not to compete in Sochi, the word 'boycott' had surfaced. Peter Gvozdják stated that the Slovakian team's reason for declining the invitation was not to do with any boycott but because of the extra expenses involved, and also of the fear that the event might turn out not to be official.

Piotr Górski also stressed that the Polish team's absence was not as part of any boycott, but because the changes had led to difficulties receiving a subsidy from their federation.

Georgy Evseev for the Russian organisers stated that 'those who didn't come just punished themselves'. It was also a source of concern that of all the teams that decided not to attend, only Great Britain had taken the trouble to inform him officially.

Marjan Kovačević remarked that organisers shouldn't be allowed to make radical changes to the place or time of an event. If changes are made, recompense should be paid to those who have incurred expenses on flights, hotels, etc. based on the original bid. Also if the host country did request a change, then this should be regarded as a 'second bid' and the bidding should be reopened allowing other countries to compete.

Thomas Maeder responded that the matter of recompense could hardly be made a legal obligation as it would increase the financial risks to the organizers such that nobody would bid. It would have to remain a moral obligation.

Harry Fougiaxis stated that, as President, he had been obliged to accept the change of venue as the RCF were firm in their choice of Sochi, and no alternative could be arranged at such short notice. He expressed disappointment at the tone of the discussion in the Mat Plus forum, especially when those who were working in good faith to resolve the situation were the target of personal insults. It was to be hoped that lessons could be drawn so that such a regrettable turn of events could be avoided in future.

7.4 Nomination of the working party for the Presidium elections

Three nominees were announced: M. Dragoun, M. Parrinello, R.Ott.

7.5 Future Meetings and WCSC

One proposal had been received for the 2019 WCCC/WCSC: Vilnius, Lithuania (17-24 August)

One proposal had been received for the 2019 ECSC: Glyfada (Athens), Greece (3-5 May)

8 Reports and Discussion

8.1 Solving Committee

8.1.1 International Solving Contest (ISC)

Axel Steinbrink reported to the assembly. The contest was conducted flawlessly in 31 countries with 46 tournaments with a total of 602 solvers (269 in Category 1, 116 in Category 2 and 217 in Category 3). The results were published on 13th of February and no appeals were filed.

Category 1: 1. Piotr Murdzia (POL), 2. Anna Bylinkina (RUS), 3. Kacper Piorun (POL)

Category 2: 1. Rajagopal Divyalakshmi (IND), 2. Yaroslav Dektyarev (RUS), 3. Lukas Muheim (SUI)

Category 3: 1. Ekaterina Kirdyashkina (RUS), 2. Chinguun Sumiya (MGL), 3. Yana Kostornichenko (RUS)

In the Category 1 contest there were also sections for juniors, women and seniors with the following top results:

Juniors: 1. Anna Bylinkina (RUS), 2. Jeyhun Huseynzada (AZE), 3. Murali Karthikeyan (IND)
 Women: 1. Anna Bylinkina (RUS), 2. Marina Skorobogatova (RUS), 3. Narmin Mammadova (AZE)
 Seniors: 1. John Nunn (GBR), 2. Ofer Comay (ISR), 3. Roland Baier (SUI) and Ian Watson (GBR)

The president thanked Axel Steinbrink and Luc Palmans for the successful organization.
 Axel Steinbrink and Luc Palmans will be again the central controllers of ISC 2019, which will take place on 27.01.2019.

8.1.2 World Solving Cup (WSC) 2017-2018

Marek Kolčák reported that the third solving cup was a success with 86 solvers from 19 countries competing in 19 tournaments. The 2017-18 WSC was won by Martynas Limontas (LTU) ahead of Vidmantas Satkus (LTU) and Piotr Murdzia (POL).

Roland Ott will be the director of the 2018-19 WSC.

8.1.3 European Chess Solving Championship (ECSC) 2018

The 2018 ECSC was cancelled when too few teams were willing to participate after the venue was changed first from Kaliningrad to Moscow, then to Sochi.

8.1.4 World Chess Solving Championship (WCSC) 2018

The director Ivan Denkovski announced the results of the 42nd WCSC in Ohrid. 20 teams and 89 solvers participated in the championship. The top results are:

Teams		Individuals	
1. Poland	151.5	1. Piotr Murdzia (POL)	76.5
2. Russia	151.25	2. Kacper Piorun (POL)	75
3. Great Britain	144.75	3. Tomáš Peitl (SVK)	74.75
4. Ukraine	143.75	4. Danila Pavlov (RUS)	74.5
5. Slovakia	138	5. Kirill Shevchenko (UKR)	73.25
6. Germany	135.25	6. John Nunn (GBR)	71.5/293
7. Serbia	134.75	7. Tadashi Wakashima (JPN)	71.5/333
8. Israel	134.5	8. Ram Soffer (ISR)	70.75
9. Finland	125.5	9. Oleksy Solovchuk (UKR)	70.5
10. Greece	122.5	10. Eddy Van Beers (BEL)	69

The three top solvers in the category of seniors (20 participants): 1. John Nunn (GBR), 2. Tadashi Wakashima (JPN), 3. Jonathan Mestel (GBR). Nine juniors competed, the top places going to Danila Pavlov (RUS), Kirill Shevchenko (UKR) and Aleksey Popov (RUS). This year there was only one lady solver, Lilia Kosolapova (RUS).

There were 87 participants in the Open Solving Tournament, directed by Ivan Denkovski and assisted by Axel Steinbrink. The winners are: 1. John Nunn (GBR), 2. Arno Zude (GER), 3. Ofer Comay (ISR). Best seniors out of 25 participants were: 1. John Nunn (GBR), 2. Ofer Comay (ISR), 3. Mordechay Chovnik (ISR). From the 7 juniors taking part, the top solvers were: 1. Danila Pavlov (RUS), 2. Kirill Shevchenko (UKR), 3. Živojin Perović (SRB).

The president thanked Ivan, Axel and their team for the excellent organization of the events.

8.1.5 Other Solving Matters ISC

Proposals that the top 3 results from Category 1 be sent by email to the Central Controllers on the same day as the competition, and that preliminary results of Category 1 should be entered on the Mat Plus site within 2 days of the competition (see Annex 1) were accepted unanimously by the assembly.

WCSC & ECSC

The report of the solving committee with suggestions for decision by the assembly is attached to these minutes as Annex 2. The following proposals were accepted unanimously by the assembly:

- a) (1.2) In the moremovers round at least one #4 and one #>4 are required.
- b) (2.3) Changes to the rules for official recognition of individual solving championships.
- c) (4.5) Changes to the rules for entitlement of individual solvers to participate.
- d) (6.1) Recommendation that problems selected for solving, if not original, should have been published more than 5 years before the competition.

Solvers' rating

Proposals for changes in the criteria for acceptability of tournaments at which ratings and norms can be gained can be found in Annex 3.

These were approved by the assembly after some debate. One point however was not decided on.

A change to Rule R3 stating that all problems in a competition will be included for the rating was contested by Marko Klasinc. Reference was made to recent developments in solving tournaments where solvers were asked to solve just 12 from a set of 14 problems. The idea being that fairly problems could be included, while at the same time giving solvers the possibility to avoid them.

When it became clear that no consensus could be reached on this issue, the President proposed that the matter be set aside for further consideration.

Mr Klasinc urged delegates to try out the new system and report back the results.

Other matters

A new form for the application for the award of the title of FIDE Solving Judge (Annex 4) was submitted for approval, which was given by the assembly.

It was announced that a working party had been formed to examine the contenders for a new system for the calculation of ratings.

The spokesman, Roland Ott, announced that he was stepping down from this role and that Luc Palmans would be the new spokesman.

8.2 WCCT Committee

The spokesman Georgy Evseev distributed copies of the booklet containing the Final Award of the 10th WCCT.

It was announced that the 11th WCCT will tentatively start in the spring of 2019 under the direction of Mikalai Sihnevich (BLR). Proposals for themes should be submitted by 15.11.2018, with the chosen themes being announced in March 2019. Delegates were asked to declare which sections their countries were willing to judge.

The deadline for compositions is expected to be April 2020 with the results appearing in 2021.

8.3 WCCI Committee

The spokesman Dmitry Turevsky reported that the final draft of the announcement for WCCI 2016-18 had been sent out to the delegates. He thanked the new judging teams, and disclosed that some small refinements to the rules had been made. These concerned the situations where the dates on magazines and the actual appearance of the magazine differed, and the rules concerning versions and corrections.

There were no comments from delegates.

8.4 FIDE Album Committee

8.4.1 2013-2015 Album

Theme indexers are expected to finish their work by the end of 2018 and the 2013-15 album is scheduled to be ready in the 2019 congress.

8.4.2 2016-2018 Album

Selection of the section directors and judges for the 2016-18 album was finalized. The fairies section will be split in two groups (one group for fairies without conditions, and the other for fairies with conditions). The announcement of the 2016-18 album will be issued in early January 2019 with a closing date of 1 June 2019.

8.4.3 Other Album matters

A proposal to amend the rule for the number of allowed entries (30 entries, as a maximum, to each section or 3 times the number of selected compositions in that section in the previous album that the composer participated) to “...*in any of the previously published albums.*” was accepted unanimously.

A proposal by Vlaicu Crişan, Jean-Marc Loustau and Mario Parrinello to change the way that problems are submitted to the Albums from once every three years to once a year over the three year period was considered by the committee. The idea would be that by evening out the workload for the judges the job would be less onerous, with the possibility of speeding up the publication of the Albums.

However the committee was not ready to accept the suggestion. Certain concerns with the proposal were raised, and these points will be referred back to the authors for comments and clarification.

8.5 Qualifications Committee

The spokesman Dinu-loan Nicula proposed the award of composing, solving and judging titles as follows:

International Grandmaster of the FIDE for Chess Compositions to: Aleksandr Semenenko (UKR).

International Master of the FIDE for Chess Compositions to: Yury Gorbatenko (RUS), Vitaly Medintsev (RUS), Zlatko Mihajloski (MKD).

FIDE Master for Chess Compositions to: Georgy Evseev (RUS), Norbert Geissler (GER), János Mikitovics (HUN), Viktoras Paliulionis (LTU), Nikola Predrag (CRO), Dmitry Turevsky (RUS).

FIDE Solving Master to: Nikos Sidiropoulos (GRE).

International Judge of the FIDE for Chess Compositions to: Yury Bilokin (UKR, helpmates), Aleksandr Bulavka (BLR, helpmates and fairies), Aleksey Ivunin (RUS, helpmates), Sergey Osintsev (RUS, studies), Mečislovas Rimkus (LTU, two/three/moremovers, helpmates), Dmitry Turevsky (RUS, helpmates and fairies).

FIDE Solving Judge to: Ivan Denkovski (MKD), Borislav Gadjanski (SRB).

All these titles were accepted by the assembly by acclamation.

8.6 Computer Matters Committee

Thomas Maeder reported on progress for the inclusion of fairy chess symbols in the Unicode standard. The Unicode Consortium has accepted the proposal, however getting it through the ISO standardization process could take some time.

The WFCC pages now run on the HTTPS protocol. Not only does this provide enhanced security for users, but also the site will be accepted as secure by web browsers.

Brian Stephenson reported that work on Meson was continuing and the database was still growing. Christian Poisson's release of an Android app of WinChloe solving program, *Chess Problemist* was noted.

8.7 Studies Committee

Yochanan Afek reported that there had been no outstanding issues during the year, but that normal activities had been ongoing. ARVES had continued to promote studies with the *eg* magazine and web site. There had been again solving tourneys for studies at Nunspeet and Wijk an Zee, while composers had been interacting on Facebook.

In India GM Ramesh has been training his students with endgame studies.

8.8 Youth Committee

Spokesman Marjan Kovačević reported on various initiatives to promote problem chess to the new generation.

Paz Einat has published a book *First Steps in Chess Composition* in Hebrew which could be translated into English to reach a wider audience.

Solving has to be promoted as a regular feature at chess events and David Gurgendze was interested in organising a European Youth Solving event at the upcoming European Youth Chess Championship. This would need to be sanctioned by the European Chess Union.

The Youth Composing Chess Challenge has been a success and it was hoped that it would keep its place in the programme of the WCCC. The committee will set themes and appoint judges for next year and there was a call for delegates to be active in publicizing the event.

8.9 Codex

Kjell Widlert appealed for more members to join the Codex committee, pointing out the delights of considering the finer points of Codex theory.

With the recent requirement that all problems used in World Solving Cup tournaments should be displayed on the WSC web pages, questions have arisen about the status of original problems used in these tourneys. According to the Codex (Article20(2)(b)) such problems would indeed be considered 'published' and that the date of the solving tourney would determine their 'priority date' (Article22(2)(a)). However the committee was of the opinion that these problems were still eligible to appear in both formal and informal composing tourneys.

Andrew Buchanan had proposed two changes for consideration:

- In Footnote 12: The reference to the current rules for the game of chess should mention the Jan. 2018 version of the FIDE Laws, and no longer the obsolete 1996 version.
- In Footnote 12: "Relevant for compositional chess are articles 1 to 5" should be replaced with "... articles 1 to 5, 9.2 and 9.3".

After some discussion, it was decided to postpone the matter to a next congress.

9 Election of Auditors

The current auditors, Bjørn Enemark and Roberto Osorio were proposed for re-election as auditor and reserve auditor, respectively, and they were accepted (no formal voting).

10 Financial Report, Balance Sheet, Auditor's Report, Budget

The auditor confirmed that he had reviewed the documents and found them in order.

The treasurer Thomas Maeder presented to the assembly the financial report 2017-18 with the budgets of 2017-18 and 2018-19 and the balance sheet of 30.06.2018 (Annex 5).

It was explained that because of the sanctions FIDE had removed their banking from Switzerland and now the money was coming from Hong Kong. However the expected 3000€ turned out to be just 2400€, contributing to a loss for the year of over 800€.

The 2018-19 budget contained no provision for the 2018 WCCC, but the President observed that although the organisers had not specifically asked for money, some support would be appreciated and that 500€ should be made available. The treasurer agreed that this amount could be taken from the budgeted surplus.

Marjan Kovačević queried that, given the delicate state of the Federation's finances, why was so much being allocated to prizes for solvers? Resources could be more usefully allocated in other ways.

In a vote, the financial report and budget were accepted (19 in favour, 1 abstention).

11 Future Meetings

One proposal had been received for the 62nd WCCC and 43rd WCSC: Vilnius, Lithuania (17-24 August 2019). One proposal had been received for the 2019 ECSC: Glyfada (Athens), Greece (3-5 May 2019).

The assembly accepted both invitations without a formal vote.

12 Presidium Elections

The following candidates were elected to the Presidium for 2019-2022:

President:	Harry Fougiaxis
1 st Vice President:	Thomas Maeder
2 nd Vice President:	Vidmantas Satkus
3 rd Vice President:	Luc Palmans

13 Any Other Business

The President put forward a proposal to nominate Georgy Evseev as an Honorary Member of the WFCC, which was accepted by the assembly.

Marjan Kovačević paid tribute to the retiring 1st Vice President, Hannu Harkola. Gratitude was expressed for his long service on the Presidium, with Marjan noting that next year will mark 50 years since his first WCCC attendance.

Another feat of longevity was marked when Zvonimir Hernitz was congratulated on being present 60 years after attending the meeting in Piran in 1958.

Discussion turned again to the subject promoting problem chess, with Yochanan Afek bemoaning the fact that little seemed to be happening.

Brian Stephenson remarked that John Nunn was going to write a report on the WCSC for Chessbase.

Marjan Kovačević put forward the idea of making contact with the new FIDE presidium with a proposal to promote youth solving at world level.

13 Conclusion

The president thanked the delegates and the spokesmen of committees for their work during the week. He congratulated the Macedonian organisers, headed by Zoran Stojcevski, Ivan Denkovski and the Chess Club Gambit Asseco, along with the Chess Federation of the Republic of Macedonia, for providing excellent facilities and wonderful conditions, which contributed to a very successful congress. The work of Axel Steinbrink, Marjan Kovačević and Borislav Gadjanski was also acknowledged with gratitude. He then declared the meeting closed.

Neal Turner (Secretary)

September 2018

Harry Fougiaxis (President)

June 2019

ANNEX 1 Rules for the International Solving Contest (ISC)

1. **Event:** The ISC is a solving competition appointed by the WFCC for individual solvers taking place on multiple locations worldwide on a Sunday at the end of January concurrently in all participating countries.
2. **Organisation:** at the WCCC of the preceding year central controller(s) are appointed by the WFCC delegates who will take the overall responsibility of the contest.
3. **Admittance:** For the admittance of each participating place a reliable local controller with email address has to be appointed for the responsibility of organising the local tournament, preferably by the local controller of the respective country; otherwise the central controllers decide about the acceptance of local controllers.
There is no limit for the amount of local competitions and multiple places per country are possible. Solvers are admitted in any local competitions, also in other countries.
4. **Categories:** The competition comprises three solver categories:
 - **Category 1** for experienced solvers, but open for all solvers
 - **Category 2** for inexperienced solvers with no rating or with an active, non-active or half-rating of less than 1700
 - **Category 3** for youth not older than 13 years in the year of the competitionSeparate results are recorded for youth, females and seniors. For Category 1 only results of solvers will be rated. However, for all solvers no norms for titles are possible.
5. **Begin:** The start of the contest should be at 11 a.m. CET (Central European Time) in all countries. Central controllers can allow a different begin of the contest for Asia and the Americas and an earlier or later begin of one hour at most for all other countries.
6. **Rounds:** The rounds of the contest last two hours for all categories.
There are two rounds for category 1 and 2 with a break of at least half an hour with a maximum of one and a half hour between the two rounds.
For category 3 there is one round only.
7. **Modus:**
 - **Category 1:** for each round a 2#, 3#, n#, eg, h# and s#
 - **Category 2:** for each round two 2# and one 3#, n# and eg and in one round a h# and in the other round a s#
 - **Category 3:** four 2#, a 3# and an eg
8. **Rules and Appeals:** General applicable solving rules of the WCSC/ECSC apply accordingly. Appeals by solvers have to be sent to the central controllers who will decide in the first instance. In case of disagreement a 3 man committee with members of the WFCC Solving Committee will be appointed for the final decision.
9. **Tools:** (technical tools used by central and local controllers)
All communication between central and local controllers by **email**
Entry of results by local controllers on **MatPlus website:** <http://www.matplus.net/>
Usage of **WFCC Solving Tournament Manager** by all controllers highly recommended for reducing the efforts of all involved parties
10. **Timeline:** (specification of latest deadlines in days - ISC = date of contest)
 - registration of local controllers until the end of the previous year
 - registration at MatPlus website by local controllers: **ISC-14**
 - distribution of complete documentation by central to local controllers: **ISC-7**
 - **top 3 results of Cat. 1 sent by email to central controllers: ISC (Sunday evening)**
 - **entry of preliminary results of Cat. 1 at MatPlus by local controllers: ISC+1 – ISC+2**
 - mailing of **all** results to central controllers: **ISC+3**
 - entry of preliminary results **of Cat. 2 & 3** at MatPlus website by local controllers: **ISC+5**
 - mailing of scanned solving sheets to central controllers: **ISC+10**
 - publication of preliminary results by central controllers: **ISC+21**
 - possible appeals by solvers: **ISC+28**
 - publication of final results: **ISC+35**
 - prize giving and distribution of certificates at next WCCC

Annex

PDF Documents local controllers receive from central controllers by email

- One sheet with diagrams of the problems for each round
- One solving sheet for writing the solutions by solvers for each round
- One sheet with diagrams and solutions of the problems for each round
- A form for summarising the results

Tasks of the local controllers

- Organisation of the local contest including reservation of suitable tournament venue
- Announcement in local publications (magazines, Internet websites etc.)
- Invitation of local solvers by mail or email
- Reproduction of various sheets to be distributed to solvers during contest
- Checking of solutions and point giving on solving sheets
- **Email of preliminary results of 3 top solvers of Category 1 to central controllers**
- Entry of preliminary results on special MatPlus website
- Email of results to central controllers
- Email of scanned solving sheets to central controllers
- Keeping of original solving sheets to ensure back-up
- Using of WFCC Solving Tournament Manager is highly recommended!

Tasks of the central controllers

- Selection of problems according to the rules for WCSC/ECSC and creation of the whole documentation necessary for the contest; especially diagrams at least for category 3 with coordinates (digits and letters) and rules for writing the solutions (like "twomovers: only the key-move" etc.)
- Creation of the invitation document, including distribution to WFCC delegates and previous local controllers
- Acceptance and registration of announced persons as local controllers on the MatPlus website
- Distribution of the complete documentation to local controllers
- Supervision of the overall contest
- Checking of the markings of local controllers
- Decision on possible appeals by solvers
- Distribution of final results to WFCC delegates, local controllers and the WFCC web publisher

WORLD (EUROPEAN) CHESS SOLVING CHAMPIONSHIP (WCSC/ECSC)

Rules

1.1. The WCSC (ECSC) is a competition for national teams and individual solvers.

1.2. It consists of 6 rounds over two days, with 3 rounds each day according to the following table:

Round 1	3 twomovers	20 minutes solving time
Round 2	3 threemovers	60 minutes solving time
Round 3	3 endgames	100 minutes solving time
Round 4	3 helpmates (h#2, h#3, h# >3)	50 minutes solving time
Round 5	3 moremovers (at least one 4# and one <u>>45#</u>)	80 minutes solving time
Round 6	3 selfmates (s#2, s#3, s# >3)	50 minutes solving time

Round 4 and Round 6 may be exchanged. The breaks between rounds are at least 15 minutes.

2.1. The WCSC (ECSC) is organised by a country which is a member of the FIDE and has been appointed by the WFCC.

2.2. WCSC (ECSC) is open to all members of the FIDE (ECU).

2.3. The WCSC (ECSC) is an official team World (European) championship if teams of at least 7 countries participate. It is an official individual World (European) championship if at least 30 solvers with a full rating from at least 10 countries participate. For juniors (up to 23 years in the year of the event), women and seniors (from 60 years in the year of the event) required numbers are 10 solvers with at least a half rating from at least 57 different countries.

3.1. The organising country nominates the Director of the WCSC (ECSC), if possible, before the announcement of the tournament. It is recommended that the Director should have a title FIDE Solving Judge or he should have experience as a director / judge of at least three rated solving tournaments.

3.2. The organising country has to nominate an Assistant Director to represent the Director in case he is unable to attend the WCSC (ECSC).

3.3. The Director is responsible for the selection of problems to be solved. He makes the diagram copies for the tournament. It is his responsibility to ensure that the solvers do not know the selection of problems.

4.1. The teams consist of three (four at ECSC) solvers and the team-leader who may be one of the solvers. Teams consisting of only two (two or three at ECSC) solvers are also permitted. The members of the teams simultaneously compete in the individual championship.

4.2. All countries are entitled to enter one team, the organising country two teams. A country participating with a team(s) is allowed to nominate one further solver for the individual championship.

4.3. A country may nominate two more solvers from extra categories (juniors, women, seniors) out of this quota. For the junior's / women's / senior's championship juniors / women / seniors from the regular national quota compete as well.

4.4. A country not participating with a team may send one (one or two at ECSC) solver(s) for the individual championship.

4.5. The ~~three best solvers of a WCSC (ECSC) are entitled to participate in the following individual WCSC (ECSC) if they are not among the solvers as defined above. Solvers with a rating of 2400 or more in the current or in the preceding rating list are also entitled to participate in the individual WCSC (ECSC). Women / juniors / seniors with a rating of 2100 / 2200 / 2300 or more in the~~ top 50 solvers / top 15 women / top 15 juniors of the current or in the preceding rating list are entitled to participate in the individual WCSC (ECSC) including its respective special categories.

5.1. A country and individuals mentioned in point 4.5 must notify the organiser of their intention to participate not later than three months before the tournament; unless in the organiser's announcement a later date is given.

5.2. The rules for the eligibility of participating solvers (whether team members or individual nominees) shall be the same as for FIDE over-the-board events.

5.3. Each country must notify the names of all solvers participating on its behalf in writing to the Director or the person nominated for this purpose by the Director or WFCC not less than 24 hours before the tournament starts. If required, the notification must include all documents according to the FIDE rules for establishing the eligibility of the participants.

5.4. The WFCC or the person so nominated is responsible for determining the eligibility of participants.

5.5. Teams and/or solvers may be admitted at a later time at the discretion of the Director.

6.1. The problems to be solved should be originals, or, alternatively, little known ~~published problems;~~ published more than 5 calendar years before the tournament ~~preferably modified.~~

6.2. The selected problems should show a clear theme and a good level of quality and difficulty. It is recommended that in every round, the three problems should represent different styles.

6.3. Fairy conditions and retro problems are not allowed. The positions should be legal. All problems should have only one solution, except in the helpmate round when more single solutions are specified. The problems should be computer tested as far as possible.

7.1. The problems to be solved must be presented on printed diagrams.

7.2. A solver may use the chess board(s) and men made available by the organiser, or his own set(s). The use of all electronic or technological aids which can help in solving is forbidden as

well as any other kind of unfair behaviour. The Director's rights and duties are to prevent any irregularities and to penalize them if necessary.

7.3. A solver must write the solutions only on the sheet provided by the Director.

8. The solutions are to be written in algebraic notation in the following way:

a) in direct mate problems: all moves in all variations of full length which defend against the threat, including the threat if it is of full length, except the last move of Black and the mating move (i.e. in twomovers only the key; in threemovers all three-move variations, including the full length threat, up to the second white move, etc.)

b) in selfmate problems: all moves except the mating move in all variations of full length which defend against the threat, including the threat if it is of full length. If there is no threat at all or an existing threat of full length is not written, all variations of full length are to be given.

c) in helpmate problems: all moves.

d) in studies: all moves up to an obvious win or draw.

9.1. In helpmate(s) for which more than one single solution is indicated the solver has to give all requested single solutions for a complete solution. In all other problems and studies only one solution is to be given.

9.2. If a solver believes he has found a cook, he may give it instead of the solution. In this case, he has to give the complete moves of the cook according to point 8. The correct and complete solution or cook of a problem scores 5 points.

9.3. An incomplete solution scores fewer points. Incorrect or incomplete variations or single solutions score 0 (zero) points. If more than the required number of solutions for a particular problem is written, it is enough that one of the solutions is incorrect for the solver to score 0 (zero) points for this problem. If more than one continuation following a defence (or more than one threat) is written, it is enough that one of them is incorrect for the solver to score 0 (zero) points for this variation (threat).

9.4. The Director must determine the distribution of points for a solution (i.e. for different variations, moves or single solutions) before the tournament starts. For a helpmate(s) with more than one solution the distribution of points should be indicated on the solving sheet.

9.5. If a problem has no solution, 0 (zero) points are awarded for this problem and all solvers get the full time score in this round.

9.6. Retro problems and problems with fairy conditions (see 6.3.) are treated like problems with no solution. A problem with an illegal position is treated like one with a legal position.

9.7. If a move is written incorrectly, unclear or ambiguously, this variation or single solution is regarded as incorrect. If, however, the Director (or the jury, pt 13.5) is sure that the correct move was intended, this variation or single solution must be regarded as correct.

10.1. During the solving a solver may leave the solving room only with a permission of the Director and accompanied by a controller.

10.2. When a solver hands over the solving sheet a controller immediately writes the elapsed time on the solver's solving sheet. Elapsed time is rounded up in minutes (i.e. when the last minute starts solvers get full time). After handing the solving sheet, the solver has no right to make any change to the solutions. He should leave the room and may not return until the round is ended.

10.3. The Director announces 10 minutes left and the last minute in each round. After the announcement of the last minute all solvers remain sitting to the end of the round. When the end is declared they stop writing and wait until the controllers collect all the solving sheets.

11.1. For the team result in each round, the scores of the two (three at ECSC) best solvers of a team for this round are taken in consideration. The points of all rounds will be totalled, as well as the respective solving time (in minutes). At ECSC for a team with only two members the result of the third member is 0 (zero) points and full time in all rounds.

11.2. For the individual score, the points a solver achieves in the different rounds will be totalled, as well as the solving time.

11.3. A solver with 0 (zero) points in a round scores the full time for this round.

11.4. The number of points determines the ranking. In the event of a tie on points, the solver or team with the shorter total solving time will be ranked higher.

12.1. Participants must be informed of the official solutions with a distribution of points of a round immediately after the end of that round. The results of the rounds must be announced in written form as soon as possible.

12.2. If a problem has proved to be incorrect (cooks, duals, no solution) this must be announced as soon as possible including the respective distribution of points.

13.1. The Director has to publish his reports daily as soon as possible. Report after 10 pm is treated like at 8 am (on the following day). He should announce in advance when the report is to be published.

13.2. Protests against any announcement must reach the Director in written form not later than one hour after this announcement. He is allowed to accept protests out of time. If the Director cannot be found, a protest should be handed to any of his assistants or a protest remark is to be made on the announcement board. Protests have to be given by the team-leaders or by an individual solver.

13.3. The Director's task is to deal with such protests and to settle disputes. His decision, along with his argument, is to be given in written form. He has to ensure that a solution given by a solver only can be seen by this solver himself, or by the leader or other members of his team.

13.4. Objections to any decision by the Director must be made in writing and must reach the Director within one hour of the announcement of the decision.

13.5. Such objections shall be dealt with by a jury consisting of three neutral persons nominated by the WFCC or by the team-leaders. The majority decision of the jury (in written form with the argument) is final.

14. These Rules should be published on the official announcement board at least 24 hours before the start of the first round as well as a Director's timetable for the complete tournament (registration, start of the rounds, preliminary results, timetable for protests, final results, prize giving, etc.).

This version of the Rules was accepted at the WFCC Congress in Belgrade 2016.

Recommendations / explanations of the WFCC:

Ad. 4.3. If a country is represented with only two solvers at the ECSC they can decide if they compete as a team. (Crete 2010)

Ad 6.2. Studies with just one line and a clear conclusion are preferable. (Moscow 2003)

Helpmates: Multiple solutions are preferable to twins. Some thematic relationship between the single solutions, and a reasonable number of single solutions altogether in a round (max. seven), are recommended. (Halkidiki 2004)

Ad. 7.2. A director may use yellow and red cards for noticed irregularities putting them on the solver's table. (Kobe 2012)

Ad. 7.3. Solvers should be allowed to write their names on the backside of solving sheets. (Kobe 2012)

Ad. 9.4. It is recommended that only the key move (except in direct twomovers) doesn't score, and that variations in one problem should be of equal worth.

Points in studies should be given only for white moves. (Crete 2010)

Ad. 9.7. Judges can determine a possible correctness of such moves by following the further effect(s) of written move(s) or by the presence/absence of signs for capture, check, mate etc. normally used by a solver. (Crete 2010)

The Director should use common sense, especially in cases when it is not specified which of two pieces of the same kind moves to the specific square. (Kobe 2012)

Solvers' rating

The rating is an integer numerical value which shows the solving strength of a solver. A solver gains it by solving at two approved / rated tournaments.

A rating can be gained at the WCSC, ECSC, WCCC Open, or other tournaments which fulfil definite criteria. Ratings are calculated after each tournament. A rating list is published four times a year. It is calculated on the basis of the results of solving tournaments completed (including the report) by the end of March, June, September and December. If a tournament starts in one period and is finished in another period, the ratings of solvers are taken from the rating list valid at the start of the tournament, and the tournament is included in the period when it is finished. In case that at the same tournament different tables are produced (like one extra for juniors) ratings are calculated only for the major tournament.

The Solving Tournament Manager (STM) software is used for the issue of the quarterly rating lists.

The use of the STM software is recommended for all rated solving tournaments and it is mandatory for WCSC and ECSC, as well as for their open solving tournaments and for ISC (central controllers only).

Criteria for acceptability of tournaments at which ratings and norms can be gained

R1	At least 10 solvers with a full rating should <u>must</u> compete in the tournament.
R2	The selected problems should be originals or originally <u>alternatively unknown</u> published problems <u>more than 5 calendar years before the tournament</u> . The selected problems should show a clear theme and a good level of quality and difficulty and should represent different styles.
R3	There should be at least 12 problems of different types to solve.
R4	Problems for solving can be chosen from seven groups: twomovers, threemovers, moremovers, endgames, helpmates, selfmates and fairy chess problems.
R5	At the tournament at least 5 groups with at least 2 problems must be represented.
R6	No group can be represented by more than 3 problems.
R7	The tournament could <u>may</u> be divided into several rounds and/or days.
R8	If <u>The correct and complete solution or cook of</u> all problems are not given the scores 5 points each the tournament coefficient is corrected for calculating ratings. Points for partly solved problems can only have a maximum of two decimal places.
R9	When fairy problems are included at the tournament it is recommended that the corresponding fairy conditions are announced at least two months beforehand. This is obligatory for the WCCC/ECSC Open and it must be announced on the WFCC site and on the WCCC/ECSC organiser's website if it exists .
R10	All tournament documentation (name of tournament director, diagrams of problems, solutions, complete list with detailed results per problem and possible complaints, etc.) should be sent to the responsible WFCC representative (committee) within 5 days (10 days for multiple-locations tournaments) after the end of the competition.

R11	In addition the solving sheets have to be kept by the tournament director for at least 4 weeks to enable probing possible issues.
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The representative (committee) has the right to confirm or not the acceptability of the tournament and determines the tournament coefficient. The final decision is approved by the WFCC.

Criteria for gaining norms

N1	Norms for the titles International Solving Grandmaster of the FIDE (GM), International Solving Master of the FIDE (IM), FIDE Solving Master (FM) can be gained in a tournament if at least 5 solvers with current rating of 2550 / 2450 / 2350 respectively participate in it.
N2	Norms cannot be gained at tournaments which take place in multiple locations.
N3	A solver obtains a GM / IM / FM norm when he/she achieves a performance rating of at least 2650 / 2550 / 2450. The solver must be placed within the number of solvers with the qualifying rating of 2550 / 2450 / 2350 (i.e. at least sixth place when there are 6 solvers with the qualifying rating of 2550 / 2450 / 2350).

Criteria for gaining titles

T1	International Solving Grandmaster of the FIDE: A solver must gain a norm 3 times (at least once at the WCSC or ECSC) and achieve a rating of 2550 .
T2	International Solving Master of the FIDE: A solver must gain a norm twice and achieve a rating of 2450 .
T3	FIDE Solving Master: A solver must gain a norm twice and achieve a rating of 2350 .
T4	The obligatory rating may be achieved anytime (i.e. at any official rating list or as a current rating after a tournament).

(This version of the criteria was accepted at the PCCC Congress in Wageningen 2006. A small change in the criteria was accepted in Rhodes 2007. Further changes were accepted in Crete 2010 and Berne 2014.)

Rules for rating calculation

The basis for calculating ratings at a solving tournament is the average of ratings of all solvers with ratings (*AveRat*) and the average of achieved results of those solvers (*AveRes*).

AveRat = average rating of all solvers with ratings (subtracting by 1600)

AveRes = average result of all solvers with ratings

A rating for a solver without a rating:

It is calculated as a **performance rating** (*PerfRat*), i.e. a temporary rating achieved by a solver at a tournament upon the formula:

$$PerfRat = AveRat \times Res / AveRes$$

Res = result of a solver achieved at a tournament

Solver's first rating is called half-rating. At his next tournament he gets another half-rating. The average of all half-ratings is calculated and put to the rating list.

Change of a rating for a solver with rating:

The expected result (*ExpRes*) is calculated for all solvers with ratings upon the formula:

$$ExpRes = AveRes \times Rat / AveRat$$

Rat = rating of a solver from the last rating list

The expected result might exceed 100% of the winner's result. In such a case the corrections (*CorrExpRes* and *CorrPerfRat*) are made upon the formulas:

$$CorrExpRes = AveRes + (ExpRes - AveRes) \times (MaxRes - AveRes) / (MaxExpRes - AveRes)$$

CorrExpRes = corrected expected result (cannot exceed 100% of the winner's result)

MaxRes = result of the winner

MaxExpRes = the highest expected result before correction (higher than the winner's result)

$$CorrPerfRat = AveRat + (PerfRat - AveRat) / (MaxPerfRat - AveRat) * (MaxRes * MaxRat / MaxCorrExpRes - AveRat)$$

CorrPerfRat = corrected performance rating

MaxRat = the highest solver's rating

MaxPerfRat = performance rating of the winner

MaxCorrExpRes = the highest corrected expected result

Change of rating (*ChOfRat*) is calculated from the difference between the expected result and the achieved result upon the formula:

$$ChOfRat = KT \times (Res - ExpRes)$$

or in a case of correction:

$$ChOfRat = KT \times (Res - CorrExpRes)$$

KT = tournament coefficient (from 1 to 4)

If the problems at the tournament are not given 5 points each the *KT* is corrected upon the formula:

$$CorrKT = KT \times 5 \times N / AbsMaxRes$$

CorrKT = corrected tournament coefficient

N = number of problems at the tournament

AbsMaxRes = theoretical *MaxRes* at the tournament

New rating is calculated upon the formula:

$$NewRat = Rat + ChOfRat$$

All calculations are made to the second decimal place. Ratings are published as integers. For publishing use the ratings are increased by 1600.

After five years of non-participation in rated tournaments, a solver will be expelled from the rating (half-rating) list. Should he participate in the future, his original rating (but not half-rating) will be accepted.

Ratings are calculated after each tournament. An updated rating list is published four times a year (at 1st January, 1st April, 1st July and 1st October).

ANNEX

Tournament coefficient

Category	Coefficient	Criteria for tournament
A frame for coefficients for tournaments organised according to the WCSC rules:		
W40	4	WCSC, ECSC
W30	3	WCSC-type tournament for norms
W25	2.5	participation of at least 5 solvers with a rating of 2300 or higher
W20	2	participation of at least 5 solvers with a rating of 2200 or higher
W15	1.5	participation of at least 5 solvers with a rating of 2100 or higher

W10	1	Other tournaments organised according to the WCSC/ECSC rules
A frame for coefficients for tournaments organised according to other rules:		
O20	2	WCCC and ECSC Open
O15	1.5	Participation of at least 15 rated solvers from at least three different countries and with at least 5 solvers with a rating of 2350 or higher
O10	1	Other tournaments

The representative (committee) has the right to confirm or not the acceptability of the tournament and determines the tournament coefficient.

This version of the rules was accepted at the PCCC Congress in Wageningen 2006. A change in the publication of the rating list was accepted in Rhodes 2007.

A change regarding negative *NewRat* was accepted in Rio 2009.

Changes ~~in~~of the criteria ~~of gaining norms and titles for the acceptability of tournaments at which ratings and norms can be gained~~ were accepted in Berne 2014, ~~and~~ in Dresden 2017 and in Ohrid 2018.



WORLD FEDERATION FOR CHESS COMPOSITION

Qualifications Committee

Application for the award of the title of FIDE Solving Judge

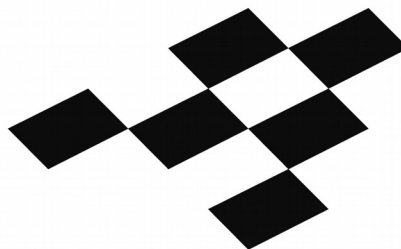
The federation / association / society of
applies for granting the title of FIDE Solving Judge to:

1	Name	
2	First name(s)	
3	Date of birth	
4	Post address	
5	City, region	
6	Country	
7	E-mail	
8	List of at least 3 solving tournaments which fulfilled the requirements for norms except the exclusion of tournaments in multiple locations	
9	List of at least 3 additional rated solving tournaments	

Date Name

Completed Application should be sent to the current Spokesman of the WFCC Solving Committee

ANNEX 5



WORLD FEDERATION FOR CHESS COMPOSITION

Financial Report 2017-18

Budget 2017-18

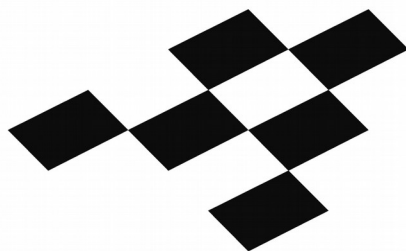
	+	-
	€	€
Contribution from FIDE 2018	3'000.00	
10. WCCT 2015-17		450.00
WCSC 2017		500.00
WCCC 2017		1'000.00
Web sites		400.00
Special project		500.00
Banking		
Other expenses		150.00
Total	3'000.00	3'000.00

Earnings 2017-18

	+	-
	€	€
FIDE	2'400.00	
WCSC 2017		500.00
WCCC 2017		1'000.00
Web sites		363.69
Special project		500.00
Banking		66.08
Amortisations		773.31
Loss	803.08	
Total	3'203.08	3'203.08

Budget 2018-19

	+	-
	€	€
Contribution from FIDE 2018	3'000.00	
ISC 2018		150.00
WCSC 2018		500.00
WCCC 2018		0.00
World Solving Cup 2017-18		300.00
Web sites		400.00
ECSC 2018		300.00
Special project		500.00
Banking		100.00
Other expenses		150.00
Earnings		600
Total	3'000.00	3'000.00



WORLD FEDERATION FOR CHESS COMPOSITION

Balance Sheet 30.06.2018

Assets				Rate	Liabilities and Equity		
	CHF	€	€	CHF / €		€	€
Bank			4'044.64		Creditors		2'918.19
					Equity 01.07.2017	4'329.52	
Debtors			2'400.00		Profits since 01.07.2017	-803.08	
					Equity	3'526.44	3'526.45
Total			6'444.64				6'444.64