Credit: Shapley Collection

THE IUUSIPLE CHESSBOARD
L. Shafley June. 1987

## the inJisirle chesgeoaro

## 1. IN THE YEAR OF OUR FORD

A friegsepiel "position" is not just a display of pieces on the two boards, deseriting one objestive chess position and two subjective reconstructions. To the player, the position of the game is both less and more than whet a fititiar sees. Less... because half the playing field is out of sight; more.. " because the player carries in his head a remembrance of moves fast, as uell as announcements, inferences and impressions -- a relevant. record that is far rictier, though less precise, than angthing he could display on the board for the kibitaers' edification. Just. as poker is essentially a game of money-management, not cardplay, 50 is kriegsspiel at heart a game of information-handling; not piece-manipulation. Unlike the chess flayer, who forever plans ahead, the kriegsspieler spends most of his thinking time to the reconstruction of past events.*

It ferhaps follous that the best kriegsspiel problems ought pay as muct attention to bartuard analysis as to formard play, somehou putting the solyer into a state of partial informationg say in the form of a mass of clues and signals to be sorted put, or even by prowiding a complete synofsis of "the game thus far" from ane player's point of view, as in our first offering.

This ancient but elegant puzzle is due to lester ford, one of Rand's Early superstars fand not only at the kriegsspiel table!). It enjoys the dubious distinction of publication in the RANDom MEWS, a stiort-lived and long-forgotten fouse organ. Strictly speaking, the diagram on the next page is unnecessary, since the entire game (from Elack's point of vieu) is spelled out in the accomparying protocol. Elack's moves are admittedly rether silly, and when you've solved the problem you'11 see that Whitex 5 moves are even sillier. Eut chess problem settings have a long tradition of implausibility, to which tiriegsspiel merely adds a new dimension.

As for the problem itself, today's soptisiticated kriegsspieler will soon unravel the "mystery of move nine" and expose White" 5 fatal indiscretion.** It is then child's play to find the twomove coup degrace. \{Adults may turn to the Ansuere sertion.)

* This is why chess skills are of limited value in playing kriegsspiel, while the ability to feep track of one's ambiguities is absalutely vital.

[^0]PROELEM NO. 1. THE MYSTERY OF WWE 9.

```
PRESENT POSITION
    WHITE (14)
```

| - | + | - | + | - | + | - | + |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $+$ | - | $+$ | - | $+$ | - | + | - |
| - | $+$ | - | + | - | $+$ | - | + |
| $+$ | - | $+$ | - | + | - | + | \# |
| - | + | - | + | (P) | + | - | (R) |
| + | - | + | ( ) | - | (N) | + | - |
| (P) | (0) | (F) | + | - | (P) | P) | + |
| (2) | (N) | (B) | (k) | + | (8) | + | - |

K
Black (14) mates in 2 \# site of pawn capture, move 10.

## PREVIOUS MOVES AND ANNOUNCEMENTS

White
Black

| 1. |  | P-154 |
| :---: | :---: | :---: |
| 2. | try 85 | $\mathrm{P}-25$ |
| 3. | Pawn gone 25 | P-QR4 |
| 4. |  | P-R5 |
| 5. |  | N -083 |
| 6. |  | $\mathrm{R}-\mathrm{R} 4$ |
| 7. |  | Q-122 |
| 8. |  | P-94 |
| 9. | try k3 | 6-k3 |
| 10. | paun gone QR5 | ?? |

Pawn gone Q4
pawn gone ks
L. R. Ford, 1956
2. WHO? WHAT? WHEN? WHERE? HOW?

The only legitimate sources of information in kriegsspiel are the official annouricements. Fut the practical player tates advantage of many other cues and clues. He takes note of the referee's choice of words and all the little slifs and pauses. He monitors the chatter of the kibjtzers, witty and otherwise, and senses the hush that falls over the room uhen some great opportunity or disaster is near. He observes the tell-tale pattern of his opponent's "no" sequence, and tries to decode the swists and thump of pieces as they are being moved about on the opposite side of the screen.*

Unfortunately, the antiseptic setting of a uritten problem gives little opportunity to present such "soft" bits of information, from uhich the live game derives so much of its flavor.** In the next prohlem, we'll try to "soften up" the reader with a barrage of the hard stuff: surprise moves, fancy checks, and pawn tries that mysteriously appear and disappear. Perhaps these will induce a haze of happy befuddlement, not unlike the mental fog that often enuraps a real-time player overloaded with ambiguities in one of those quickie lunch-hour games. The difference is that nou you have all the time you want to figure it out?

Rather than start at the beginning, as in No. 1 , we pick up the action just $5 i \times$ moves before the jumping-off point, making the somewhat unreal assumption that White, at that time, knew nothing of Plack's position except for the piece-count and the patun-files. Never fear! The next si\%, fun-packed moves produce a wealth of intricately interlocking pieces of information --enough, indeed, for an excellent reconstruction when the jig-saw is finally fut together.

One conment: The reader may wonder what significance could possibly attach to the "no" on Rlack's sth. Surely White can win just as quickly without hearing that "no" ... or can he?

* Before the high screen was introduced, Ray Fulterson was the acknowledged master at reading eye, neck and shoulder movements across the screen. Les Ford, for his part, was the master at faking them.
** Put see Problem 11, where the referee makes one tiny little mietake, alas!

FRORLEM NO. 2. WHAT' E GOING OM HERE?

THE PRESENT POSITION
Plack (5)


WHITE (5) mates in 4.
\# Scene of the captures on move 6.

SIY MOUES EARLIER
Black ( $7^{*}$ )

WHITE (7)

Elack Has two pauns, known to be on the $Q$ and $k P$ files respectively.

## INTERVENING MONES AND ANHOUNCEMENTS

## White

1. $P-Q 3$
2. P-K4
3. $\quad$ - 63
4. P-KS
5. P-N6
6. $P-R 7$
7. ?? (mate in 4)

Black

| $\cdots$ | ch file |
| :--- | :--- |
| $\cdots$ | ch knight |
| $\cdots$ | tries KRS, KRS |
| $\cdots$ | piece KN4; ch long |
| $\cdots$ | tries KBS, KRT |
| $\cdots$ | no |
| $\cdots$ | pawn KR7 |

## 3. THE VOICES OF SILENCE

No news is big news in No. 3. The silence that follows White's 14 th is absolutely deafening. In fact, the referee's inability to say "no" eventually gives the uhole show away.

The setting is unusually realistic for a composed problem. White's opening is irreproachably "safe and sane", and even Black's eccentric plan of development is hardly any quirkier than many this author has witnessed in actual play.*

The purist may complain that the key-move is not unique. Yet the two solutions are such Siamese twins that it cannot fairly be said that the problem is "cooked".**

* The author and Ray Fulterson once thought to stage this game before an unsuspecting lunchtime audience, keeping even the referme in the dark. Alas, we never agreed who would play white!
** Conl: (kook) vt.: To spoil (a problem) by finding two or more key moves. Webster's New International Dictionary, znd ed.

FRORLEM NO. 3. THE VOICES OF SILEHCE

Elact: (16)

| - | $+$ | - | + | - | $+$ | - | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| + | - | $+$ | - | + | - | + | - |
| - | + | - | + | - | + | - | + |
| + | - | + | - | + | - | + | - |
| $p$ | + | - | P | - | W | - | $\bigcirc$ |
| $+$ | - | $N$ | - | $\alpha$ | - | $p$ | - |
| - | $\theta$ | <P> | + | p> | $p$ | 8 | + |
| + | - | 3 | - | $\pi$ | - | + | $R$ |

- Y

WHITE (16) mates in 2.

PREUIOUS MOVES AND ANNOUNCEMENTS
White
Elack

| 1. | P-6.4 | "Plack" | * | "White" |
| :---: | :---: | :---: | :---: | :---: |
| 2. | P-KN3 | " | . . . | " |
| 3. | $\mathrm{B}-\mathrm{N}_{2}$ | " | $\cdots$ | " |
| 4. | P-KR2 | * | . . | " |
| 5. | N-KR3 | " | - $\cdot$ | " |
| 6. | N-P. 4 | * | $\cdots$ | " |
| 7. | P-R4 | " |  | " |
| 8. | R-QR3 | " | .. | " |
| 9. | Q-Q3 | " |  | " |
| 10. | 0-KE3 | " | -•• | " |
| 11. | R-K3 | " | . . | " |
| 12. | N-E. 3 | n | $\cdots \cdot$ | " |
| 13. | Q-RS | " |  | " |
| 14. | Q-P8 | " |  | " |
| 150. | 0-0 | "no" |  |  |
| 6. | mate in 2 |  |  |  |

4. JUST HOREING AROUND

No. 4 makes no pretense of realism. Rut there is a pleasing pattern in the prescribed moves and a nice echo in the solution.

One feature of this problem may disturb the solver at first. It seems that no clue uthatever hints at the location of the Plack King. Why, it might be just about anywhere!

THE PRESEIUT FOSITTOM
Black ( 6



WHITE <Q> mates in 2.

* Site of White's try.

9 MOUES EARLIER
Elact: \{ $6 *\}$

WHITE < ¢

* MoTE: All 9 Black pauns tiave been captured.


## INTERUENING MOUES AND ANNOUNCEMENTS

White

| 1. | R-Q1 | "Black:" |
| :---: | :---: | :---: |
| 2. | K-R7 | " |
| 3. | $\therefore K-R S$ | ${ }^{\prime \prime}$ |
| 4. | K-R 5 | 1 |
| 5. | K-R4 | N |
| 6. | K-R3 | " |
| 7. | K-R2 | " |
| 8. | $K-R 1$ | " |
| 9 | $k-R 2$ | "no" |
|  | $\mathrm{K}-\mathrm{Nz}$ | "R1 ack" |
| 10. | ?? | te in 2 ? |

Blact:
.." "ch knight \& long"
... "etrknight"
". "chknight"
". "ch lunight"
"." "ch knight"
".. "cts linight"
". "ch knight"
... "ch knight"
". "try f゙ロz"

## 5．TEN TEMPTING TRIES

Here＇s another example of a single move releasing a flood of information．This time，houever，the voice is far from silent．TEN \｛count＇em！＇brand－new paun tries appear out of the blue．White，naturally，resists all ten temptations and gallantly＂pushes past＂to victory．

Here＇s the sound tract：
＂White to move．＂
＂Black to move．＂
＂White has tries on QR3，QNS，QR3，Q4，Q5， K゙B3，KB4 and ドR3，not to mention the double try on QNS．＂
＂Mate！＂

This is of course just a stunt，not a real problem． But before tumning the page，you might enjoy trying to figure out the position that permits this sequence of announcements．＊

```
Is ten the maximum for a legal game? We thint: so.
```

[^1]PROPLEM NO. 5.

Plact: (13)

| - | $+$ | - | + | - | $+$ | - | + |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| + | (p) | + |  | + | - | $+$ | - |
| (b) | $+$ | - | + | - | $+$ | - | + |
| (1) ${ }^{\text {a }}$ | - | P> | (a) | + | - | + | - |
| $p$ P | + | P> | (b) | (a) | (a) | - | + |
| (5) | - | (r) | - | P | ( $n$ ) | + | (r) |
| (a) | $\langle\mathrm{P}\rangle$ | - | + | K | - | < $P$ | (a) |
| + | 4 | + | (b) | + | - | + | - |

WHITE (9)

REFEREE'S ANNOUNCEMENTS
"White"
"Black"
"Tries at QR3, QNG, QNS \{dbl), QB3, Q4, Q5, KB3, KB4, and KR3.
"Mate!"

PROELEH NO, E. RAY'S SEND-OFF.
For a change, herexs a problem where the players start from a tnown position. This is also the first problem in utich probabilities enter the picture -- and in a relatively sophisticated was. The "value of the game" is a win for White, but white tias no strategy, pure or mixed, that achieves it, even in expected value.

The situation responsible for this phenomenon is one that can arise rather easily in king-and-pawn endings in regular kriegspiel. But in this problem it is hardly more than an afterthought to the tartical maneuvering that is the main point of interest.

This problem was composed* as a parting gift to Ray Fulkerson on his departure from Rand for Cornell. It was physically engraved on an aluminum kriegsspiel screen/tray, the rest of utiose surfaces were covered with his friends' signatures interspersed with pithy kriegspiel sayings: "When in doubt, push past", "A cheap tactical maneuver!" "The canonical try", "Troop E!", "Mart: your ambiguities", "Hell no!" and the like.

THE STARTING POSITION
Black (4)


WHITE (b) wins uith probability arbitrarily close to 1.

```
THE PPESENT POSITION
Elack (2)
```



WHITE (2) to uin.

White, knowing the exact position, has brought his king to QN3 and Black has just made his move. If the referee says "White" or "Rlack promotes", then there is an obvious mate at KI. So we assume that the announcement is
"Rlack promotes, check knight."

Now White must take care not to allow Elack's king to escape the corner while the knight roams free, for in that case plack would have at least a small chance of picking off the queen. In fact, White has a strategy that wins in five moves or less, wherein he either checkmates the king or captures the unprotected knight without danger of stalemate. Can you find it?

PPORLEM MO. 8. THE WIDE OPEN SPACES.
For initial shock value this end-game is uneaualled. In fact, most people, seeing the problem for the first time, are doubly astonished. How can a bishop and knight in such an open position possibly force a friegsspiel win -- in and number of moves? And even granting the premise of the problem, how can any human solver produce an e act strategic plan 22 moves deep? The mind toggles.

Actually, things are not all that bad. Some frantic fencebuilding by White at the outset reduces Black's running room, and it only remains for the solver to discover the little finesses required to break down Black's defensive perineter. The actual kill, once the ki has been driven into the corner, takes only four or five moves.

While the sharpest line of play does take just 22 moves, anything under 30 means that you have essentially mastered the problem. Remember that you will need several moves after the $f$ is cornered (see above), so don't waste time looking at variations that let Plack run into the center.

## THE PRESENT POSITION

## Flack (1)



WHITE $\because$ mates in 2.

## 9. "Voices of Silence" II

In No. 3, The "silence' is broken at the very end - when 'White tries to castle and gets a
in a composition based on the "silence" theme. To give black a free move at that critical point. - with all his men still on the board and in some state of development -- would unravel White's reconstruction and make a forced mate in a reasonable number of moves unattainable.

Some time later, however, a way was found to get rid of this thematic impurity. The idea was to get black into such a tangled position that his final move, though silent, would not be "free". No. 9 is a realization of that idea. Indeed, the solver will eventually discover that $\operatorname{llack}$ as 14 th move is uniquely determined, since all his other moves would trigger announcements:

The present setting is quieter than No. 3 in other respects as well. For one thing, there is no sudden burst of information at the end. White's dramatic 5 th move creates a little flurry, but any information gained is given plenty of time to disperse, and the remaining mine moves apparently tell us nothing new. The solution itself is also subdued. The keymove is unforcing and uninformative, and it turns out that White need pay no attention to the referee's voice as the winning strategy unfolds, except to listen for a possible "hell, no!"

```
PRESENT FOSITION
R．1act：（14）
```



WHITE 46\％mates in 3．

PREVIOUS MOUES AND ANNOUNCEMENTE

White

| 1. | P－k゙3 | ＂Elack＂ |
| :---: | :---: | :---: |
| 2. | N－K゙R3 | ＂ |
| 3. | N－B． 4 | ＂ |
| 4. | Q－R5 | ${ }^{\prime}$ |
| 5. | Q－K8 | ＂ |
| 6. | 9－P4 | ＂ |
| 7． | P－9E3 | ＂ |
| 8. | Q 01 | ＂ |
| 9. | P－QR4 | ＂ |
| 10． | 0－RS | ＂ |
| 11. | 9－R7 | ＂ |
| 12. | B－N5 | ＂ |
| 13. | P－K゙4 | ＂ |
| 14. | P－94 | ＂ |
| 15. | ？？\＆ | in 3） |

B1act：

| - . : | ＂White＂ |
| :---: | :---: |
|  | ＂ |
| ．．． | ＂ |
| ．．． | n |
| ．． | n |
| ．$=$ | ＂ |
| ．．． | n |
| ．． | ＂ |
| －．${ }^{\text {．}}$ | ＂ |
| ．． | ＂ |
| ．． | ＂ |
| ． | ＂ |
| ．． | n |

PROELEM NO. 10. HIT THE MOUING TARGET

## THE PRESENT POSITION

> Black (2)


WHITE \{2\} mins with P ? $1 / 2$

Bott, players are assumed to have exact information at the start, and it is White's move. Black can draw by picking off the paun at his QRZ, or by sacrificing the bishop on that square uthen his king is ready to move into QEZ. On the other hand, if the paun is allowed to promote, the queen will win easily against the bishop.

The situation clearly calls for mined strategies.
T. E. Ferguson, 7/76

THE PRFSENT POSITION
Plack: (g)


WHITE (8) mate ins
\# Site of Plack's latest cafture.

THE POSITION 4 MOUES AGO
Blact (10*)


WHITE (10)

* Plack is known to have of pieces and 4 pauns.


## MOVES AND ANNOUNCEMENTS

White Black

| 1. | N(N2)-8.4 | "try 94" | - $\cdot$ | "piece QS, try" |
| :---: | :---: | :---: | :---: | :---: |
| 2. | P $\times 65$ | "piece 94, try" | - $\cdot$ | "try, QRE" |
| 3. | P\%ES | "paun ab3" |  | "no" <br> "White" |
| 4. | $\begin{aligned} & k-B 6 \\ & 6-67 \end{aligned}$ | "no" <br> "try kbs" -- |  |  |

But at this point, amid mumurs of discontent, Ref reconsiders and admits that his "no" at move 3 was in error. The position is accordingly retracted, Black is told to try the move again, and play resumes with the corrected announcement. --

$$
\begin{array}{llll}
\text { 3. } & \text { - } 07 & \text { try kbs" } & \text {.. "White" } \\
\text { 4. piece ke4" }
\end{array}
$$

White starts to object, but is solemnly assured that apart from the false "no" there have been no mistakes. After pondering this for a while, White announces the mate in $b$.

PPOELEM WO, 12. THE IMFINITE FOLUER OF THE FOOK.

1. The board is a quarter flane.
2. White's ling and rook start as shown below.
3. Plack places tis king on any legal square, unknown to white.
4. White then plays to win with probability 1.


$$
155 \quad c .1960
$$

Standard chess rules apply, with the following additions and elucidations . . .

1. Fersonnel -- two players, referee, kibitzers,
E. Each flayer has a complete chess set (board, black and white men).
2. A player may freely rearrange the men of opposite color on his board -- these men have no official role in the game. The players may not see each other's boards and men.
3. The referee monitors the game, and is required to amounce the following. ..
4.1 Whose turn it is to move (called here the mover).
4.2 The square(s) on which the mover's pauns have currently valid options to make captures (called "tries"), thus, "White has a pawn try onking five," "Black has a double try on queen's knight three," etc.
4.3 Each rebuff ("no") experienced by the mover in attempting to move.

4,4 The fact that a capture has taken place, the category of the captured man according to the pourri'piece dichotomy, and its location. Thus, "Black has lost a piece on his queen one,"
4.5 Check.5, which are announced by whichever of the following is (are) correct . . .
4.5.1 Gheck on the long diagonal,
4.5.2 Check on the stort diagonal,
4.5.3 Check on the rank (or "horizontal"),
-
4.5.4 Check on the file (or "vertical"),
4.5.5 Check by a knight.
(The diagonals considered are the pair which intersect at the king. Check by a pawn is announced as if it were a bishop or queen, i. e, without revealing that it is a pawn.)
4.6 Pawn promotions, but not where they occurred nor what piece was chosen.
4.7 Checkmate and stalemate,
5. The referee does not review announcements more than one move old, and does not recapitulate losses,
6. The referee does not rebuff in the usual manner attempts which are illegal fer se, such as moving to or through a square occupied by one's own man, failing to remove a captured piece from the board, moving a rook diagonally, responding to a check by other than a king move or interposition or capture compatible with the announced character of the check, etc. The special rebuff "hell, no!" is used here,
7. Errors -- It is the referee's function to communicate effectively with the players. For example, if a player mis-identifies the square named in an announcement the referee will correct him, taking care not to disclose any significant information while doing so.

Referee blunders range from trivial to catastrophic. The remedies include general reprimand, reverse play, and declaring the game void.
8. A player may, before moving, demand a count of the rebuffs ("no's") sustained by his opponent on the previous move, In fact, he may demand such information during the opponent's turn.
9. A player may attempt any mowe which is compatible with his own situation (men and deployment) and with the referee's current announcement, (In interpreting the word "compatible", the player is not presumed to remember previous plays or to make logical inferences.)
10. A move is completed when a piece touches the board or a presumed enemy piece on a legally admissible square,
11. En passarit options and captures are announced in the same manner as other options and captures are announced. The fact that they are en passant is not specified.
12. When a check exists, only those fawn options ("tries") are announced which if taken will eliminate the check.
13. Notation -- The designations used for squares are from the point of view of the mover. Thus if White captures on his KB8, the event is announced on Black's KBl, For easier identification, some referees use the terms near and far to distinguish the king- and queen-sides (according to the seat of the referee), thu5, "Black piece gone on far bishop one," "White try on near middile five," etc.)

14, Kibitiers -- The game is a spectator sport pay excellence, and everything is done to keep it 50. The kititzers have the right to criticize the play; the players and the referee. However, the ethics of the situation require that the kibitzers never intentionally give useful information to the players. Probably the game breaks down as the number of kibitzers increases indefinitely -- even with half a dozen, a pinned pawn has but small chance of not being found out in a false try situation.
15. It is considered ethical for a player to capitalize on blunders and all unsolicited information received from referee and kibitzers -- indeed, he may attempt to solicit "information" from his opponent or otherwise heckle him.
16. Draws -- A player may offer a draw immediately after making any move that is not rebuffed, The offer must be accepted or rejected before the next move is attempted. A player may not claim a draw unilaterally on the presumption of a twice-repeated position, a "perpetual ctieck." an absence of mating strength or a failure to make timely progress in the end game, But the referee, on his own initiative and discretion, may declare a game draun for any of these reasons except. "twice-repeated position"" (A "position" in kriegsspiel is deemed to include all the information gathered ty the players from the beginning, and hence is never repeated.)


[^0]:    ** Meedless to say, his fate is richly deserwod in this instance. Eut as the traditional "good guy" of chess protlems, White will fare better in the sequel.

[^1]:    ＊Hint：Put White＇s king at his Q2 and Black＇sking at his KR4．Then give White a rook and bishop in addition to the necessary pauns．

